State of Wisconsin Department of Natural Resources Bureau of Air Management P.O. Box 7921, Madison WI 53707-7921 dnr.wi.gov

Air Operation Permit Compliance Certification Form 4530-170 (R 4/06)

Notice: Under ss. NR 407.09(4)(a)3. and 439.03(1)(c), Wis. Adm. Code, all sources issued an air operation permit by the Wisconsin Department of Natural Resources must submit an annual (or more frequent) certification of compliance with all operation permit terms and conditions over the reporting period specified in the permit. You may use this form to submit your compliance certification to the Department, and to EPA Region V. Please note that compliance certifications must be signed by a responsible official, as defined in NR 400.02(136), Wis. Adm. Code. Please retain records and all other material information used to certify compliance with your air operation permit for Department review. Use of this Form is voluntary. Personally identifiable information collected on this Form is unlikely to be used for any purpose other than that for which it was originally collected, but may be provided to requesters as required by Wisconsin's Open Records law (ss. 19.31-19.39, Wis. Stats.).

A.) Facility Information	
1) Facility Name Atlas Resin Proppants LLC	
2) FID:627005280	
3) a. Permit Number 07-JAJ-042	b. Permit Issue Date January 19 th , 2010
4) Reporting Period Covered by this Certification January 1, 2010	- December 31, 2010
5) FOR PART 70 SOURCES ONLY:	
All Part-70 sources must also submit a copy of the compliance cer WDNR regional field office. Addresses are listed in your Part-70 a facility:	tification to the US EPA-Region V, in addition to the appropriate ir permit. Please check the following box, if applicable to your
X A copy of the Compliance Certification has been submitted t	o US EPA-Region V.
B) Foolilly Compliance Information	
B.) Facility Compliance Information	
Check either (a) "CONTINUOUS COMPLIANCE" or (b) "INTER (Terms "continuous" and "intermittent" compliance are defined ir	
certification, this facility was in continuous compliance w	ring the entire reporting period identified in this compliance ith <u>all</u> conditions specified in the permit identified in this compliance or each condition is the method specified in the permit identified in
certification, this facility was in continuous compliance witl certification, EXCEPT for the deviations identified on the	ng the entire reporting period identified in this compliance h <u>all</u> conditions specified in the permit identified in this compliance attached deviation report. The method used to determine compliance entified in this compliance certification, unless otherwise indicated
NOTE: If you select this option, you must complete and attach the deviations from any conditions of the permit for the reporting period	Air Operation Permit Deviation Summary Report, in which you list dovered by this Compliance Certification.

Air Operation Permit Compliance Certification Form 4530-170 (R 4/06)

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In certain circumstances where the underlying applicable requirement allows, permits may include a choice of limits and/or standards, alternate operating scenarios, alternate monitoring methods, alternate recordkeeping, and the like. Where the permit includes such options or alternate requirements, the source must specifically identify the permit terms and conditions which applied over the entire reporting period. Many federal MACT standards provide a choice of emission standards and associated monitoring requirements. For example, the pulp and paper MACT (40 CFR part 63 subpart S) requires certain control devices to either reduce total hazardous air pollutant emissions by weight, or by volume, or through the use of a thermal oxidizer operating under certain parameters, or through other specified means.

7) If the facility operated under alternative permit requirements for all or part of the reporting period covered by this compliance certification, please identify the permit condition that describes the alternative permit requirements, list the emission unit operated according to these requirements, and list the begin and end dates during which the emission unit was operated according to these requirements: (Add additional pages if necessary)

a) Permit Condition Reference:

b) Emission Unit:
c) Alternative Requirement Begin and End Date:

a) Permit Condition Reference:	b) Emission Unit:	c) Alternative Requirement Begin and End Date:
D.) Facility Compliance Certification	AND	
NOTE: A responsible official, as defined in s. NR 400.0 Compliance certifications that are not signed by a respon	2 (136), Wis. Adm. Code sible official will be returne	, must sign this compliance certification. ed as incomplete.
I have reviewed this facility's compliance status with resp in this compliance certification. Based on information and information in this document are true, accurate and comp	d belief formed after reaso	ermit conditions for the reporting period specified nable inquiry, I certify that the statements and
Signature of Responsible Official	Erica Grant Typed or Printed N	
_ Production Manager Title	// Date	

For questions concerning compliance certification, contact your regional compliance engineer by phone, via email, or via facsimilie.

State of Wisconsin Department of Natural Resources Bureau of Air Management P.O. Box 7921, Madison WI 53707-7921 dnr.wi.gov

Air Operation Permit Compliance Certification Form 4530-170 (R 4/06)

Notice: Under ss. NR 407.09(4)(a)3. and 439.03(1)(c), Wis. Adm. Code, all sources issued an air operation permit by the Wisconsin Department of Natural Resources must submit an annual (or more frequent) certification of compliance with all operation permit terms and conditions over the reporting period specified in the permit. You may use this form to submit your compliance certification to the Department, and to EPA Region V. Please note that compliance certifications must be signed by a responsible official, as defined in NR 400.02(136), Wis. Adm. Code. Please retain records and all other material information used to certify compliance with your air operation permit for Department review. Use of this Form is voluntary. Personally identifiable information collected on this Form is unlikely to be used for any purpose other than that for which it was originally collected, but may be provided to requesters as required by Wisconsin's Open Records law (ss. 19.31-19.39, Wis. Stats.).

A.) Facility Information	
1) Facility Name Atlas Resin Proppants LLC	
2) FID:627005280	
3) a. Permit Number 07-JAJ-042	b. Permit Issue Date January 19 th , 2010
4) Reporting Period Covered by this Certification January 1, 2010	– June 30, 2010
5) FOR PART 70 SOURCES ONLY:	
All Part-70 sources must also submit a copy of the compliance cert WDNR regional field office. Addresses are listed in your Part-70 ai facility:	
A copy of the Compliance Certification has been submitted to	US EPA-Region V.
B.) Facility Compliance Information	
6) Check either (a) "CONTINUOUS COMPLIANCE" or (b) "INTERI (Terms "continuous" and "intermittent" compliance are defined in	
	ring the entire reporting period identified in this compliance th <u>all</u> conditions specified in the permit identified in this compliance or each condition is the method specified in the permit identified in
certification, this facility was in continuous compliance with certification, EXCEPT for the deviations identified on the a	g the entire reporting period identified in this compliance a <u>all</u> conditions specified in the permit identified in this compliance ttached deviation report. The method used to determine compliance entified in this compliance certification, unless otherwise indicated
NOTE: If you select this option, you must complete and attach the deviations from any conditions of the permit for the reporting period	

Air Operation Permit Compliance Certification Form 4530-170 (R 4/06)

Air Operation Permit Compliance Certification Form 4530-170 (R 4/06)

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In certain circumstances where the underlying applicable requirement allows, permits may include a choice of limits and/or standards, alternate operating scenarios, alternate monitoring methods, alternate recordkeeping, and the like. Where the permit includes such options or alternate requirements, the source must specifically identify the permit terms and conditions which applied over the entire reporting period. Many federal MACT standards provide a choice of emission standards and associated monitoring requirements. For example, the pulp and paper MACT (40 CFR part 63 subpart S) requires certain control devices to either reduce total hazardous air pollutant emissions by weight, or by volume, or through the use of a thermal oxidizer operating under certain parameters, or through other specified means.

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a) Permit Condition Reference:	b) Emission Unit:	c) Alternative Requirement Begin and End Date:
D.) Facility Compliance Certification		
NOTE: A responsible official, as defined in s. NR 400.0 Compliance certifications that are not signed by a respon	• •	•
I have reviewed this facility's compliance status with resp in this compliance certification. Based on information and information in this document are true, accurate and comp	d belief formed after reasonal	
	Erica Grant	
Signature of Responsible Official	Typed or Printed Name	
_ Production Manager	//	
Title	Date	

For questions concerning compliance certification, contact your regional compliance engineer by phone, via email, or via facsimilie.





01/21/11

Jeff Johnson
Air Management Compliance Officer
Wisconsin Department of Natural Resources
West Central Region Headquarters
1300 West Clairemont Ave.
P.O. Box 4001
Eau Claire, WI 54702-4001

Mr. Johnson,

This letter serves to certify our compliance with regard to Permit No. 627005280-P02 for our Taylor, WI manufacturing site. In accordance of Part 1, Item ZZZ, Number 3.a.(1) attached in Appendix A and B are a summary of our CAM Plan and monitoring data required by the permit for Tower A and Tower B respectively for the period of July 1 through December 31, 2010.

In accordance with Part 1, Item ZZZ, Number 3.a.(2) attached in Appendix C is our annual Certification of Compliance. A copy of this certification has been sent to US EPA as required.

As per your letter dated November 11, 2010, we have been operating under the granted variance for conditions i.E.1.b.(6) and I.J.1.b.(6) relating to processes P51 and P151 and control devices C50 and C150 (Permit #:627005280-P02). This variance has allowed us to operate the processes outside the specified 0 to 550 NTU range when running CRC product. Emissions stack testing was completed January 12, 2011, following procedures as listed under I.ZZZ.2 of the previously mentioned permit. At the time of this letter results of the test have not yet been received. We look forward to sharing the results with you sometime within the next couple weeks.

Another item to be noted relates to Table 2 for the Monitoring Approach for Scrubbers C50 and C150, Item II Indicator Range, Indicator #2 of our CAM Plan which states a required scrubber liquid flow of at least 45 gpm. We have had times when running our CRC product that our current ultrasonic flow meters have given a false reading of zero. When flow meters read zero, flow is verified by visual verification of liquid return to the sludge tank. This issue has been addressed with Tom Ponty during the August 24, 2010 WDNR site visit and we have budget plans in 2011 to implement his suggestion of recirculation pump motor power as a means to monitor flow measurements.

If you have any questions or care to discuss this report in more detail, please contact me at the number listed below.

Regards,

Erica Grant

'roduction Manager

Atlas Resin Proppants, LLC - Taylor Plant

P.O. Box 100 • N7532 County Road P • Taylor, WI 54659 • (715) 662-2200 • FAX (715) 662-2424



Appendix A

Atlas Resin Proppants, LLC Taylor Manufacturing Plant

Tower A
CAM Plan Summary
Monitoring Data

Table 2
Monitoring Approach for Baghouse C20

Temporal Contract			
			INDICATOR NO. 1
Ī.	Ind	licator	Pressure Drop
	We	asurement Approach	Measure pressure drop across
			baghouse with Magnehelic 0-15" H₂O
			differential pressure gauge.
11.	Ind	icator Range	Pressure drop across baghouse
			control device between 1 and 8 inches
			water column.
111.	Pei	formance Criteria	
	A.	Data	Static pressure is measured at the
		Representativeness	baghouse inlet and exhaust. The
		•	accuracy of the device is +/- 2%.
	В.	Verification of	Monitoring device maintained in
		Operational Status	accordance with the manufacturer's
		•	recommendations and calibrated at
			least once per year. Pressure taps
			checked daily for plugging.
	C.	QA/QC Practices and	Trained personnel collect and record
		Criteria	data and calibrate monitor.
	D.	Monitoring	Once every 8 hours of operation
		Frequency	-
	E.	Data Collection	Results of pressure drop are recorded
		Procedures	in log, "Environmental Controls
l			Inspection."
	F.	Averaging Period	NA

Table 2 Monitoring Approach for Scrubber C50

L		L ON GOTACION	ON ACTACION >	S ON GOTACION	A CIR GOT A CIRCUIT
L	Indicator		Flow	7.00	Scribber Light Turkidite
<u>:</u>	nent Approach	ure drop across	scrubber with	scrubber	Measure turbidity recirculated
			Dynasonics Ultrasonic flowmeters.	Thermo	scrubber liquid with Hach Model 2100
		Capsuhelic 0-20" and Magnehelic 0-1" H ₂ O pressure gauges.		Orion 3 Star pH probe.	N and 2100 AN turbidimeters.
l=	Indicator Range	Pressure drop across the scrubber and demister between 8 and 17 inches of H ₂ O.	Liquid flow of at least 45 gpm.*	pH between 9.5 and 10.2	NTUs less than 550.**
E	Performance Criteria				
	A. Data Representativeness	The monitoring system consists of a Flow is measured prior to spray differential pressure transducer, which nozzles following a gate valve. The		The pH of a sample taken from the sludge tank is measured in the	The turbidity of a sample taken from the sludge tank is measured in the
			ø	laboratory. The accuracy of the probe	
		pnor to the ventur to the pressure in the duct following the demister. The	repeatability of the device is +/- 1%.	IS +/- 0.00%.	device is +/- 2% for 0.01 NTU to 1,000 NTU. Repeatability +/- 1%.
		accuracy of the scrubber gauge is +/- 3%, and +/- 2% for the demister			
	B. Verification of				Monitoring device maintained in
	Operational Status	accordance with the manufacturer's recommendations and calibrated at	accordance with the manufacturers recommendations and calibrated as	recommendations and calibrated daily recommendations. Primary calibration	accoluatios with the manufacturers recommendations. Primary calibration
					performed every 90 days. Secondary
		checked daily for plugging.			calibration performed daily.
	C. QA/QC Practices and	s,	Trained personnel perform collections.	1.6	
****	Criteria	Equipment is calibrated according to	Equipment is calibrated according to	Equipment is calibrated according to	Equipment is calibrated according to
		Liquid is drained when necessary.	וומותומכתוכן 2 ופכטוווופותמוטוס.		
	D. Monitoring	Once every 8 hours of operation.	Once every 8 hours of operation.	Once every 8 hours of operation.	Once every 8 hours of operation.
	E. Data Collection Procedures	Results are recorded in log, "Environmental Controls Inspection."	Results are recorded in log, "Environmental Controls Inspection."	Results are recorded in log, "Environmental Controls Inspection."	Results are recorded in log, "Environmental Controls Inspection."
	F. Averaging Period	NA	NA	INA	INA

*Due to foam issues when running CRC product, flowmeters will read zero. This has been addressed with Tom Ponty during Air Compliance Evaluation of August 24, 2010. Plans to incorporate his suggestion of reciculation pump motor power as a means to monitor flow measurements have been incorporated into 2011 plans.

**We are currently operating under the granted variance dated November 11, 2010. This variance allows us to operte the processes outside the specified 0 to 550 NTU range when running CRC product. Emissions stack testing was completed 01/12/11 with results not yet available at the time of this report submittal.

C:Documents and Settings/dtiffanyWy Documents/ENVIRONWENTALYTAYLOR/CAM PLANNAir Monitoring Report 01.21.11 1/27/2011



Appendix B

Atlas Resin Proppants, LLC Taylor Manufacturing Plant

Tower B
CAM Plan Summary
Monitoring Data

Table 2
Monitoring Approach for Baghouse C120

Personance of	enthalester						
			INDICATOR NO. 1				
I.	Inc	licator	Pressure Drop				
	Me	asurement Approach	Measure pressure drop across				
l			baghouse with Magnehelic 0-15" H ₂ O				
			differential pressure gauge.				
11.	Ind	licator Range	Pressure drop across baghouse				
İ		_	control device between 1 and 8 inches				
			water column.				
III.	Pe	rformance Criteria					
	A.	Data	Static pressure is measured at the				
		Representativeness	baghouse inlet and exhaust. The				
Į		•	accuracy of the device is +/- 2%.				
	В.	Verification of	Monitoring device maintained in				
		Operational Status	accordance with the manufacturer's				
		•	recommendations and calibrated at				
			least once per year. Pressure taps				
			checked daily for plugging.				
	C.	QA/QC Practices and	Trained personnel collect and record				
		Criteria	data and calibrate monitor.				
	D.	Monitoring	Once every 8 hours of operation				
		Frequency					
	E.	Data Collection	Results of pressure drop are recorded				
		Procedures	in log, "Environmental Controls				
			Inspection."				
	F.	Averaging Period	NA				

Table 2 Monitoring Approach for Scrubber C150

	+ ON COTACION	0 011 00000		
	INDICATION NO. 1	INDICALOR NO. 2	INDICATOR NO. 3	INDICATOR NO. 4
l. Indicator	Pressure drop	Scrubber Liquid Flow	Scrubber Liquid pH	Scrubber Liquid Turbidity
Weasurement Approach	Measure pressure drop across scrubber and demister with Capsuhelic 0-20" and Magnehelic 0-1" H ₂ O pressure gauges.	Measure flow to scrubber with Dynasonics Ultrasonic flowmeters.	ibber liquid with a ir pH probe.	Measure turbidity recirculated scrubber liquid with Hach Model 2100 N and 2100 AN turbidimeters.
II. Indicator Range	Pressure drop across the scrubber and demister between 8 to 17 inches.	Liquid flow of at least 45 gpm.*	pH between 9.5 and 10.2.	NTUs less than 550.**
III. Performance Criteria	The monitoring system consists of a differential pressure transducer, which compares the pressure in the duct prior to the venturi to the pressure in the duct following the demister. The accuracy of the scrubber gauge is +1-3%, and +1-2% for the demister gauge.	Flow is measured prior to spray nozzles following a gate valve. The accuracy of the device is +/- 3%. The repeatability of the device is +/- 1%.	The pH of a sample taken from the sludge tank is measured in the laboratory. The accuracy of the probe is +/- 0.002.	The turbidity of a sample taken from the sludge tank is measured in the laboratory. The accuracy of the device is +/- 2% for 0.01 NTU to 1,000 NTU. Repeatability +/- 1%.
A. Data Representativeness	Monitoring device maintained in accordance with the manufacturer's recommendations and calibrated at least once per year. Pressure taps checked daily for plugging.	Monitoring device maintained in accordance with the manufacturer's recommendations and calibrated as needed.	Monitoring device maintained in accordance with the manufacturer's recommendations and calibrated daily.	Monitoring device maintained in accordance with the manufacturer's accordance with the manufacturer's recommendations and calibrated daily. recommendations. Primary calibration performed every 90 days. Secondary calibration performed daily.
B. Verification of Operational Status	Trained personnel perform collections. Equipment is calibrated according to manufacturer's recommendations. Liquid is drained when necessary.	Trained personnel perform collections. Equipment is calibrated according to manufacturer's recommendations.	Trained personnel perform collections. Equipment is calibrated according to manufacturer's recommendations and cleaned and drained monthly.	Trained personnel perform collections. Equipment is calibrated according to manufacturer's recommendations.
C. QA/QC Practices and	QA/QC Practices and Once every 8 hours of operation.	Once every 8 hours of operation.	Once every 8 hours of operation.	Once every 8 hours of operation.
	on."	sults are recorded in log, vironmental Control's Inspection."	Results are recorded in log, "Environmental Control's Inspection."	Results are recorded in log, "Environmental Control's Inspection."
E. Data Collection Procedures	NA.	NA.	Ψ. V	Ψ.
F. Averaging Period	NA	NA	NA	NA

C:Documents and Settings/dtiffanyMy Documents\ENVIRONIXENTALYTAYLOR\CAM PLANIA'r Monitoring Report 01.21.11 1/21/2011



Appendix C

Atlas Resin Proppants, LLC Taylor Manufacturing Plant

Certification of Compliance

Air Operation Permit Compliance Certification Form 4530-170 (R 4/06)

State of Wisconsin Department of Natural Resources Bureau of Air Management P.O. Box 7921, Madison WI 53707-7921 dnr.wi.gov

Air Operation Permit Compliance Certification Form 4530-170 (R 4/06)

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All Part-70 sources must also submit a copy of the compliance certi WDNR regional field office. Addresses are listed in your Part-70 air facility:	fication to the US EPA-Region V, in addition to the appropriate permit. Please check the following box, if applicable to your
X A copy of the Compliance Certification has been submitted to	US EPA-Region V.
B.) Facility Compliance Information	
A STATE OF THE STA	- 2014년 전 1일
Check either (a) "CONTINUOUS COMPLIANCE" or (b) "INTERM (Terms "continuous" and "intermittent" compliance are defined in	IITTENT COMPLIANCE" below Instructions, page 3 of 4).
 a) X Facility Was in Continuous Compliance (Duri certification, this facility was in continuous compliance with certification. The method used to determine compliance for this compliance certification) 	ng the entire reporting period identified in this compliance h <u>all</u> conditions specified in the permit identified in this compliance r each condition is the method specified in the permit identified in
certification, this facility was in continuous compliance with certification, EXCEPT for the deviations identified on the at	the entire reporting period identified in this compliance all conditions specified in the permit identified in this compliance lached deviation report. The method used to determine compliance at this compliance certification, unless otherwise indicated
NOTE: If you select this option, you must complete and attach the A deviations from any conditions of the permit for the reporting period of	ir Operation Permit Deviation Summary Report, in which you list covered by this Compliance Certification.

Air Operation Permit Compliance Certification Form 4530-170 (R 4/06)

Air Operation Permit Compliance Certification Form 4530-170 (R 4/06)

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In certain circumstances where the underlying applicable requirement allows, permits may include a choice of limits and/or standards, alternate operating scenarios, alternate monitoring methods, alternate recordkeeping, and the like. Where the permit includes such options or alternate requirements, the source must specifically identify the permit terms and conditions which applied over the entire reporting period. Many federal MACT standards provide a choice of emission standards and associated monitoring requirements. For example, the pulp and paper MACT (40 CFR part 63 subpart S) requires certain control devices to either reduce total hazardous air pollutant emissions by weight, or by volume, or through the use of a thermal oxidizer operating under certain parameters, or through other specified means.

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requirements: (Add additional pages if necessar	у)	
a) Permit Condition Reference:	b) Emission Unit:	c) Alternative Requirement Begin and End Date:
144		
D.) Facility Compliance Certification		
NOTE: A responsible official, as defined in s. Ni Compliance certifications that are not signed by a	R 400.02 (136), Wis. Adm. Coo responsible official will be retur	le, must sign this compliance certification. ned as incomplete.
I have reviewed this facility's compliance status win this compliance certification. Based on informatinformation in this document are true, accurate an	ition and belief formed after rea	permit conditions for the reporting period specified sonable inquiry, I certify that the statements and
Curco Cartes Signature of Responsible Official	_Erica Gra Typed or Printed	nt Name of Signatory
_ Production Manager Title	1 Jate 120,	Щ

For questions concerning compliance certification, contact your regional compliance engineer by phone, via email, or via facsimilie.

2010 Air Emissions Inventory Summary Report

State of Wisconsin Department of Natural Resources **Bureau of Air Management**

FID:

1

627005280

Page:

627005280

Atlas Resin Proppants, LLC

N7500 COUNTY ROAD P

TAYLOR

DNR Region: West Central

County:

Jackson

SIC Code:

2899 -- CHEMICAL PREPARATIONS,

NAICS Code:

325998 -- All Other Miscellaneous Chemical Product and Preparation Manufacturing

Constr Date:

Employees:

Area:

442134 ft2

UTM Zone: 15

UTM X: 649540 m

UTM Y: 4911590 m

Dawn Tiffany

7156622200

Facility Air Management Contact

N7530 County Road P Taylor WI 54659

dtiffany@atlasresinproppants.com

Robbie Sage

7156622200

Facility Billing Contact

P.O. Box 100 Taylor WI 54659

rsage@atlasresinproppants.com

Erica Grant

7156622200

Facility Responsible Official

PO Box 100 Taylor WI 54659

egrant@atlasresinproppants.com

JEFFERY JOHNSON

7158388387

DNR Emission Inventory Contact

1300 W CLAIREMT

EAU CLAIRE WI 54701 jeffery.johnson@wisconsin.gov

2010 Air Emissions Inventory Summary Report State of Wisconsin Department of Natural Resources Bureau of Air Management

Page:

: 2

FID: 627005280

DEVICE AND PROCESS LIST

DEVICE ID > PROCESS ID	DEVICE CODE > PROCESS CODE	DEVICE NAME > PROCESS NAME	DEVICE CATEGORY > PROCESS DESCRIPTION
C114 > 01	FILTER CONTROLLING	Panel Filter - Tower B Raw Silo1Bin Filter - Tower B	Fabric Filters Used for collectors
C115 > 01	FILTER CONTROLLING	Panel Filter - Tower B Raw Silo 2 Bin Filter - Tower B	Fabric Filters Used for collectors
C119 > 01	COLLECTOR CONTROLLING	Cyclone Cyclone - Tower B	Cyclone/Settling Chambers Used for collectors
C120 > 01	BAGHOUSE CONTROLLING	 Baghouse - Tower B Baghouse	Baghouse/Fabric Filter Used for collectors
C14 > 00	BAGHOUSE CONTROLLING	 Panel Filter Raw Silo 1 Bin Filter - Tower A	Baghouse/Fabric Filter Used for collectors
C15 > 00	BAGHOUSE CONTROLLING	 Panel Filter Raw Sllo 2 Bin Filter - Tower A	Baghouse/Fabric Filter Used for collectors
C150 > 01	SCRUBBER CONTROLLING		Wet Collection Systems Used for collectors
C19 > 01	CYCLONE CONTROLLING	Cyclone - Tower A	Cyclone/Settling Chambers Used for collectors
C20 > 00	BAGHOUSE CONTROLLING	Baghouse - Tower A Baghouse	Baghouse/Fabric Filter Used for collectors
C22 > 01	FILTER CONTROLLING	Raw Silo 3 Bin Filter - Tower A Raw Silo 3 Bin Filter	Fabric Filters Used for collectors
C50 > 00	SCRUBBER CONTROLLING	 Wet Scrubber - Tower A Wet Scrubber	Wet Collection Systems Used for collectors
F11 > 01	GENERIC GENERIC	Rail Car Unloading - Tower A UnLoading	Miscellaneous Generic Throughput Process
F111 > 00	GENERIC GENERIC	Railcar Unloading - Tower B Railcar Unloading - Tower B	Miscellaneous Generic Throughput Process
F161 > 00	GENERIC GENERIC	Railcar Loading - Tower B Railcar Loading - Tower B	Miscellaneous Generic Throughput Process
F61 > 01	GENERIC GENERIC	Railcar Loading - Tower A Railcar Loading - Tower A	Miscellaneous Generic Throughput Process
P113 > 00	GENERIC GENERIC	Elevator 1 - Tower B Elevator #1 - Tower B	Miscellaneous Generic Throughput Process
P114 > 01	SILO GENERIC	Raw Silo 1 - Tower B Raw Silo #1B	Miscellaneous Generic Throughput Process
P115 > 00	SILO GENERIC	Raw Silo 2 - Tower B Raw Silo #2B	Miscellaneous Generic Throughput Process
P116	CONVEYOR	Conveyor 1 - Tower B	Miscellaneous

2010 Air Emissions Inventory Summary Report

State of Wisconsin Department of Natural Resources Bureau of Air Management

FID: 627005280

Page:

3

	E	Bureau of Air Management	115. 02/000200
> 01 	GENERIC	Conveyor 1-Tower B	Generic Throughput Process
P117	CONVEYOR	Elevator 2 - Tower B	 Miscellaneous
> 00	GENERIC	Elevator 2 B	Generic Throughput Process
P121	GENERIC	Day Tank - Tower B	Miscellaneous
> 00 	GENERIC	Day Tank - Tower B	Generic Throughput Process
P122	GENERIC	Weigh Hopper 1 - Tower B	Miscellaneous
> 00	GENERIC	Weigh Hopper - Tower B	Generic Throughput Process
P123	PROCESS HEATER	Raw Material Heater - Tower B	Boiler/Furnace
> 00 	GENERIC	Combustion of fuels at atm pressure	Generic Throughput Process
P123A	GENERIC	Emissions from Heater - Tower B	Miscellaneous
> 01 	GENERIC	Heater Emissions - Tower B	Generic Throughput Process
P127	GENERIC	Elevator 3 - Tower B	Miscellaneous
> 01 	GENERIC	Elevator 3 - Tower B	Generic Throughput Process
P128	GENERIC	Resin Tank - Tower B	Miscellaneous
> 01 	GENERIC	Resin Tank - Tower B	Generic Throughput Process
P129	GENERIC	Weigh Hopper 2 - Tower B	Miscellaneous
> 00 	GENERIC	Weigh Hopper 2 - Tower B	Generic Throughput Process
P13	CONVEYOR	Elevator 1 - Tower A	Miscellaneous
> 00 	GENERIC	Elevator # 1	Generic Throughput Process
P14	SILO	Raw Silo 1 - Tower A	Miscellaneous
> 00	GENERIC	Raw Silo #1	Generic Throughput Process
P141	SCREEN	Shaker Screen - Tower B	Miscellaneous
> 00 	GENERIC	Simplicity Screen	Generic Throughput Process
P142	GENERIC	Elevator 4 - Tower B	Miscellaneous
> 00 	GENERIC	Elevator 4 - Tower B	Generic Throughput Process
P143	SCREEN	Scalping Screen - Tower B	Miscellaneous
> 01 	GENERIC 	Sweco	Generic Throughput Process
P144	COOLER	Product Cooler - Tower B	Miscellaneous
> 0 	GENERIC	Product Cooler - Tower B	Generic Throughput Process
P145	GENERIC	Elevator 5 - Tower B	Miscellaneous
> 00 	GENERIC	Elevator 5 - Tower B	Generic Throughput Process
P146	SILO	Finished Silo 1 - Tower B	Miscellaneous
> 00	GENERIC	Finshed Silo 1 - Tower B	Generic Throughput Process
P147	SILO	Finished Silo 2 - Tower B	Miscellaneous
> 01 	GENERIC	Finsished Silo 2 - Tower B	Generic Throughput Process
P148	SILO	Finished Silo 3 - Tower B	Miscellaneous
> 01 	GENERIC	Finished Silo 3 - Tower B	Generic Throughput Process
P15	SILO	Raw Silo 2 - Tower A	Miscellaneous
> 00 	GENERIC	Raw Silo #2	Generic Throughput Process
P151	GENERIC	Batch Mixer - Tower B	Miscellaneous
> 00	GENERIC	Batch Mixer	Generic Throughput Process

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		noud of 7 th management	
> 01 	GENERIC	Ammonia	Generic Throughput Process
P152	GENERIC	Continuous Mixer - Tower B	Miggellangous
> 00	GENERIC		Miscellaneous
		Continuous Mixer - Tower B	Generic Throughput Process
> 01 	GENERIC 	Ammonia 	Generic Throughput Process
P16	CONVEYOR	Conveyor 1 - Tower A	Miscellaneous
> 00	GENERIC	Conveyors #1	Generic Throughput Process
	0.0111.714.7		
P161	CONVEYOR	Conveyor 2 - Tower B	Miscellaneous
> 01 	GENERIC	Conveyor 2 - Tower B	Generic Throughput Process
P163	CONVEYOR	Weigh Belt - Tower B	Miscellaneous
> 00	GENERIC	Weigh Belt - Tower B	Generic Throughput Process
P17	CONVEYOR	Elevator 2 - Tower A	Miscellaneous
> 00	GENERIC	Elevator #2	Generic Throughput Process

P21	GENERIC	Day Tank 1 - Tower A	Miscellaneous
> 01	GENERIC	Day Tank	Generic Throughput Process
P22	SILO	Raw Silo 3 - Tower A	Miscellaneous
> 02	GENERIC	Raw Silo 3	Generic Throughput Process
P23	GENERIC	Weigh Hopper 1 - Tower A	Miscellaneous
> 01	GENERIC	Weigh Hopper 1	Generic Throughput Process
P24	PROCESS HEATER	Raw Material Heater - Tower A	Boiler/Furnace
> 01	GENERIC	Combustion of fuels at atmospheric	Generic Throughput Process
		pressure	
P24A	GENERIC	Dust Emissions from (P24) - Tower A	Miscellaneous
> 01	GENERIC	Sand Heating	
			Generic Throughput Process
P27	GENERIC	Elevator 3 - Tower A	Miscellaneous
> 01	GENERIC	Elevator 3	Generic Throughput Process
P28	GENERIC	Resin Tank - Tower A	Miscellaneous
> 01	GENERIC	Resin Tank	Generic Throughput Process
P29	GENERIC	Weigh Hopper 2 - Tower A	Miscellaneous
> 01	GENERIC	Resin Weigh Hopper	Generic Throughput Process
P41	SCREEN	Shaker Screen - Tower A	Miscellaneous
> 01	GENERIC	Simplicity Screen	Generic Throughput Process
P42	GENERIC	Elevator 4 - Tower A	Miscellaneous
> 01	GENERIC	Elevator #4	Generic Throughput Process
P43	SCREEN	Coolein Coores Toward	* A* 11
	GENERIC	Scalping Screen - Tower A	Miscellaneous
> 01 		Sweco Screen	Generic Throughput Process
P44	COOLER		N H
		Product Cooler - Tower A	Miscellaneous
> 01 	GENERIC 	Cooling	Generic Throughput Process
P45	CONVEYOR	Conveyor 2 - Tower A	Miscellaneous
> 01	GENERIC	Converyor #2	
			Generic Throughput Process
P46	GENERIC	Elevator 5 - Tower A	Miscellaneous
> 01	GENERIC	Elevator #5	Generic Throughput Process

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P47 > 01	SILO GENERIC	Finished Silo 1 - Tower A Finished Silo #1	Miscellaneous Generic Throughput Process
P48 > 00	SILO GENERIC	Finished Silo 2 - Tower A Finish Silo #2	 Miscellaneous Generic Throughput Process
P49 > 01	GENERIC GENERIC	Weigh Belt - Tower A Weigh Belt	 Miscellaneous Generic Throughput Process
P51 > 00 > 01	GENERIC GENERIC GENERIC	Batch Mixer - Tower A Ammonia Batch Mixer	Miscellaneous Generic Throughput Process Generic Throughput Process
P52 > 00 > 01	GENERIC GENERIC GENERIC	Continuous Mixer - Tower A Ammonia Continuous Mixer	Miscellaneous Generic Throughput Process Generic Throughput Process
P71 > 00 	SILO GENERIC 	Finish Silo 3 - Tower A Finsh silo #3	Miscellaneous Generic Throughput Process

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EMISSION FLOW SUMMARY

```
F11-01 (100%) --> OUT
F111-00 (100%) --> OUT
F161-00 (100%) --> OUT
F61-01 (100%) --> OUT
P113-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P114-01 (100%) --> C114-01 (100%) --> S114-01 (100%) --> OUT
P115-00 (100%) --> C115-01 (100%) --> S115-01 (100%) --> OUT
P116-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P117-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P121-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P122-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P123-00 (100%) --> C119-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P123A-01 (100%) --> C119-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P127-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P128-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P129-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P13-00 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P14-00 (100%) --> C14-00 (100%) --> S14-00 (100%) --> OUT
P141-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P142-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P143-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P144-0 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P145-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P146-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P147-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P148-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P15-00 (100%) --> C15-00 (100%) --> S15-00 (100%) --> OUT
P151-00 (100%) --> C150-01 (100%) --> S150-01 (100%) --> OUT
P151-01 (100%) --> OUT
P152-00 (100%) --> C150-01 (100%) --> S150-01 (100%) --> OUT
P152-01 (100%) --> OUT
P16-00 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P161-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P163-00 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT
P17-00 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P21-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P22-02 (100%) --> C22-01 (100%) --> S22-01 (100%) --> OUT
P23-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P24-01 (100%) --> C19-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P24A-01 (100%) --> C19-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P27-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P28-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P29-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
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P41-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P42-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P43-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P44-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P45-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P46-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P47-01 (50%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P48-00 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P49-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT
P51-00 (100%) --> OUT
P51-01 (100%) --> C50-00 (100%) --> S50-00 (100%) --> OUT
P52-01 (100%) --> OUT

P71-00 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

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State of Wisconsin Department of Natural Resources **Bureau of Air Management**

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DEVICES/PROCESSES DETAILS

C114

Fabric Filters

Filter, Mat or Panel

DEVICE DESC: Panel Filter - Tower B

CONSTR DATE: DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT

VALUE

PM10 PM

90% 90%

PROCESS NAME: Raw Silo1Bin Filter - Tower

C114, Process 01 Used for collectors

В

PROCESS COMMENTS:

SCHEDULE: 12 Hrs/Day

QTRLY SCHEDULE: Q1: 25%

7 Dys/Wk Q2: 25%

336 Dys/Yr

Q3: 25%

Q4: 25%

-- INCOMING STREAMS--P114-01 (100%) --> C114-01

--OUTGOING STREAMS--C114-01 (100%) --> S114-01

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C115

Fabric Filters

Filter, Mat or Panel

DEVICE DESC: Panel Filter - Tower B

CONSTR DATE: DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT

VALUE

PM10

PM

90% 90%

C115, Process 01

Used for collectors

PROCESS NAME: Raw Silo 2 Bin Filter -

Tower B

PROCESS COMMENTS:

SCHEDULE: 12 Hrs/Day

7 Dys/Wk

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

Mechanical

Q4: 25%

--INCOMING STREAMS--P115-00 (100%) --> C115-01

--OUTGOING STREAMS--

C115-01 (100%) --> S115-01

(100%) --> OUT

C119

Cyclone/Settling Chambers

Collector

DEVICE DESC: Cyclone

CONSTR DATE: DEVICE COMMENTS:

-- CTRL EFFIC--

POLLUTANT

VALUE

PM10

90%

PM

90%

C119, Process 01

Used for collectors

PROCESS NAME: Cyclone - Tower B

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

Q4: 25%

-- INCOMING STREAMS--

P123A-01 (100%) --> C119-01

P123-00 (100%) --> C119-01

--OUTGOING STREAMS--

C119-01 (100%) --> C120-01 (100%) --> S120-01 (100%) -->

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FID: 627005280

C120

Baghouse/Fabric Filter

Baghouse

DEVICE DESC: Baghouse - Tower B **CONSTR DATE:**

DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT

VALUE

PM10

PM

99.7% 99.7%

C120, Process 01

Used for collectors

PROCESS NAME: Baghouse

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day QTRLY SCHEDULE: Q1: 25%

7 Dys/Wk Q2: 25%

336 Dys/Yr Q3: 25%

Q4: 25%

--INCOMING STREAMS--

C119-01 (100%) --> C120-01

P113-00 (100%) --> C120-01

P116-01 (100%) --> C120-01

P117-00 (100%) --> C120-01

P122-00 (100%) --> C120-01

P127-01 (100%) --> C120-01

P128-01 (100%) --> C120-01 P129-00 (100%) --> C120-01

P141-00 (100%) --> C120-01

P142-00 (100%) --> C120-01

P143-01 (100%) --> C120-01

P144-0 (100%) --> C120-01

P145-00 (100%) --> C120-01

P147-01 (100%) --> C120-01

P148-01 (100%) --> C120-01

P163-00 (100%) --> C120-01

P161-01 (100%) --> C120-01

P121-00 (100%) --> C120-01

P146-00 (100%) --> C120-01

--OUTGOING STREAMS--

C120-01 (100%) --> S120-01

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C14

Baghouse/Fabric Filter

Baghouse

DEVICE DESC: Panel Filter **CONSTR DATE: 12/01/2005**

DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT

VALUE

PM10 PM

90% 90%

C14, Process 00

Used for collectors

PROCESS NAME: Raw Silo 1 Bin Filter -

Tower A

PROCESS COMMENTS:

SCHEDULE: 8 Hrs/Day QTRLY SCHEDULE: Q1: 25%

7 Dys/Wk Q2: 25%

336 Dys/Yr

Q3: 25%

Q4: 25%

--INCOMING STREAMS--P14-00 (100%) --> C14-00

--OUTGOING STREAMS--

C14-00 (100%) --> S14-00

(100%) --> OUT

C15

Baghouse/Fabric Filter

Baghouse

DEVICE DESC: Panel Filter **CONSTR DATE: 12/01/2005**

DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT

VALUE

PM10 PM

90% 90%

C15, Process 00

Used for collectors

PROCESS NAME: Raw Silo 2 Bin Filter -

Tower A

PROCESS COMMENTS:

SCHEDULE: 8 Hrs/Day

7 Dys/Wk

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

Q4: 25%

--INCOMING STREAMS--

P15-00 (100%) --> C15-00

--OUTGOING STREAMS--

C15-00 (100%) --> S15-00

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C150

Wet Collection Systems

Scrubber

DEVICE DESC: Wet Scrubber - Tower B **CONSTR DATE:**

DEVICE COMMENTS:

--CTRL EFFIC--

 POLLUTANT
 VALUE

 PM10
 71%

 PHENOL
 54.5%

 PM
 71%

 ROG
 64%

 AMMONIA
 3.2913%

C150, Process 01

Used for collectors

PROCESS NAME: Wet Scrubber - Tower B

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

Q4: 25%

--INCOMING STREAMS--

P151-00 (100%) --> C150-01

P152-00 (100%) --> C150-01

--OUTGOING STREAMS--

C150-01 (100%) --> S150-01

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C19

Cyclone/Settling Chambers

Cyclone

DEVICE DESC: Cyclone - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT

VALUE

PM10 PM

90% 90%

C19, Process 01

Used for collectors

PROCESS NAME: PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

Q4: 25%

--INCOMING STREAMS--

P24-01 (100%) --> C19-01 P24A-01 (100%) --> C19-01

--OUTGOING STREAMS--

C19-01 (100%) --> C20-00 (100%) --> S2Ó-00 (100%) -->

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C20

Baghouse/Fabric Filter

Baghouse

DEVICE DESC: Baghouse - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT

VALUE

PM10 PM 99.7% 99.7%

C20, Process 00 Used for collectors

PROCESS NAME: Baghouse

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day QTRLY SCHEDULE: Q1: 25%

7 Dys/Wk Q2: 25%

· 336 Dys/Yr

Q3: 25%

Q4: 25%

--INCOMING STREAMS--

P13-00 (100%) --> C20-00

P16-00 (100%) --> C20-00

P17-00 (100%) --> C20-00 P48-00 (100%) --> C20-00

P21-01 (100%) --> C20-00

P23-01 (100%) --> C20-00

C19-01 (100%) --> C20-00

P27-01 (100%) --> C20-00

P28-01 (100%) --> C20-00

P29-01 (100%) --> C20-00

P41-01 (100%) --> C20-00

P42-01 (100%) --> C20-00

P43-01 (100%) --> C20-00

P44-01 (100%) --> C20-00

P45-01 (100%) --> C20-00

P46-01 (100%) --> C20-00 P47-01 (50%) --> C20-00

P49-01 (100%) --> C20-00

P71-00 (100%) --> C20-00

--OUTGOING STREAMS--

C20-00 (100%) --> S20-00

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C22 **Fabric Filters** Filter, Mat or Panel

DEVICE DESC: Raw Silo 3 Bin Filter - Tower A

CONSTR DATE: DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT VALUE 90% PM10 90% PM

C22, Process 01 **Used for collectors**

PROCESS NAME: Raw Silo 3 Bin Filter

PROCESS COMMENTS:

336 Dys/Yr SCHEDULE: 8 Hrs/Day 7 Dys/Wk

Q2: 25% Q3: 25% Q4: 25% QTRLY SCHEDULE: Q1: 25%

--INCOMING STREAMS--

P22-02 (100%) --> C22-01

--OUTGOING STREAMS--

C22-01 (100%) --> S22-01 (100%) --> OUT

Scrubber C50 **Wet Collection Systems**

DEVICE DESC: Wet Scrubber - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

-- CTRL EFFIC--

VALUE POLLUTANT 71% PM10 54.5% **PHENOL** 71% PM 64% ROG 3.2913% **AMMONIA**

C50, Process 00 **Used for collectors**

PROCESS NAME: Wet Scrubber

PROCESS COMMENTS:

7 Dys/Wk 336 Dys/Yr SCHEDULE: 24 Hrs/Day

QTRLY SCHEDULE: Q1: 25% Q3: 25% Q4: 25% Q2: 25%

--INCOMING STREAMS--

P51-01 (100%) --> C50-00 P52-01 (100%) --> C50-00

--OUTGOING STREAMS--

C50-00 (100%) --> S50-00

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F11

Miscellaneous

Any Device

DEVICE DESC: Rail Car Unloading - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

F11, Process 01

Generic Throughput

Process

PROCESS NAME: UnLoading

SCC CODE: 30502506

PROCESS COMMENTS:

SCHEDULE: 4 Hrs/Day

7 Dys/Wk

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

ANNUAL TPUT: 227935414 LB

of PRODUCT -

MINERALS

AVG TPUT: 169594.80208 LB/HR

MAX TPUT: 200000 LB/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

PM PM10 .003 LB/TON .0011 LB/TON

OTHR

OTHR

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH 10000 LB UNCNTRLD 341.903 LB <u>CNTRLD</u> 341.903 LB OZONE/DY

Q4: 25%

PM (c) PM10 (c)

10000 LB

125.364 LB

125.364 LB

--INCOMING STREAMS--

TPUT --> F11-01

--OUTGOING STREAMS--

F11-01 (100%) --> OUT

F111, Process 00

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F111

Miscellaneous

Any Device

DEVICE DESC: Railcar Unloading - Tower B

CONSTR DATE: DEVICE COMMENTS:

Generic Throughput

Process

PROCESS NAME: Railcar Unloading - Tower B

SCC CODE: 30502506

PROCESS COMMENTS:

SCHEDULE: 4 Hrs/Day

7 Dys/Wk

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

ANNUAL TPUT: 250718632 LB

Q2: 25%

Q3: 25%

of PRODUCT -

MINERALS

AVG TPUT: 186546.60119 LB/HR

MAX TPUT: 200000 LB/HR

--EMISSION FACTORS--

<u>POLLUTANT</u>

PM

PM10

VALUE / UNIT

ORIGIN

.003 LB / TON

DNR

.0011 LB / TON

DNR

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH

UNCNTRLD 376.078 LB

CNTRLD 376.078 LB OZONE/DY

Q4: 25%

PM (c) PM10 (c) 10000 LB 10000 LB

137.895 LB

137.895 LB

--INCOMING STREAMS--

TPUT --> F111-00

--OUTGOING STREAMS--

F111-00 (100%) --> OUT

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Q4: 25%

State of Wisconsin Department of Natural Resources **Bureau of Air Management**

F161 Miscellaneous **Any Device**

DEVICE DESC: Railcar Loading - Tower B

CONSTR DATE: DEVICE COMMENTS:

F161, Process 00 **Generic Throughput**

Process

PROCESS NAME: Railcar Loading - Tower B

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 8 Hrs/Day QTRLY SCHEDULE: Q1: 25%

7 Dys/Wk 336 Dys/Yr Q2: 25% Q3: 25%

ANNUAL TPUT: 253151002 LB

of PRODUCT -

MINERALS

AVG TPUT: 94178.20015 LB/HR **MAX TPUT: 120000 LB/HR**

--EMISSION FACTORS--

POLLUTANT VALUE / UNIT **ORIGIN** DNR .003 LB / TON PMPM10 .0011 LB / TON DNR

--EMISSIONS / YR--

OZONE/DY NR438_THRESH <u>UNCNTRLD</u> CNTRLD **POLLUTANT**

379.727 LB 10000 LB 379.727 LB PM (c)

139.233 LB 139.233 LB 10000 LB PM10 (c)

--INCOMING STREAMS--

TPUT --> F161-00

--OUTGOING STREAMS--

F161-00 (100%) --> OUT

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F61

Miscellaneous

Any Device

DEVICE DESC: Railcar Loading - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

F61, Process 01

Generic Throughput

Process

PROCESS NAME: Railcar Loading - Tower A

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 8 Hrs/Day

7 Dys/Wk

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

ANNUAL TPUT: 229961598 LB

of PRODUCT -

MINERALS

AVG TPUT: 85551.18973 LB/HR

MAX TPUT: 120000 LB/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

ORIGIN

PM PM10 .003 LB / TON .0011 LB / TON **OTHR** OTHR

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH 10000 LB

UNCNTRLD 344.942 LB

CNTRLD 344.942 LB OZONE/DY

Q4: 25%

PM (c) PM10 (c)

10000 LB

126.479 LB

126.479 LB

--INCOMING STREAMS--

TPUT --> F61-01

--OUTGOING STREAMS--

F61-01 (100%) --> OUT

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FID: 627005280

P113

Miscellaneous

Any Device

DEVICE DESC: Elevator 1 - Tower B

CONSTR DATE: DEVICE COMMENTS:

P113, Process 00

Generic Throughput

Process

PROCESS NAME: Elevator #1 - Tower B

SCC CODE: 30502502

PROCESS COMMENTS:

SCHEDULE: 4 Hrs/Day

QTRLY SCHEDULE: Q1: 25%

7 Dys/Wk Q2: 25%

of PRODUCT -

ANNUAL TPUT: 125359 TON

MINERALS

AVG TPUT: 93.27307 TON/HR MAX TPUT: 100 TON/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

ORIGIN

PM PM10 .029 LB / TON

DNR

.0064 LB / TON

DNR

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH 10000 LB

UNCNTRLD 3,635.411 LB **CNTRLD** 10.906 LB

336 Dys/Yr

Q3: 25%

OZONE/DY

Q4: 25%

PM (c) PM10 (c)

10000 LB

802.298 LB

2.407 LB

-- INCOMING STREAMS--

TPUT --> P113-00

--OUTGOING STREAMS--

P113-00 (100%) --> C120-01 (100%) --> S120-01 (100%) -->

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627005280 FID:

P114

Miscellaneous

Silo

DEVICE DESC: Raw Silo 1 - Tower B

CONSTR DATE: DEVICE COMMENTS:

P114, Process 01

Generic Throughput

Process

PROCESS NAME: Raw Silo #1B

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 12 Hrs/Day

QTRLY SCHEDULE: Q1: 25%

7 Dys/Wk Q2: 25%

336 Dys/Yr Q3: 25%

ANNUAL TPUT: 62680 TON

of PRODUCT -

MINERALS

AVG TPUT: 15.54563 TON/HR

MAX TPUT: 100 TON/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

ORIGIN

PM PM10 .029 LB / TON

EPA EPA

.0064 LB / TON

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH

UNCNTRLD 1,817.720 LB **CNTRLD** 181.772 LB OZONE/DY

Q4: 25%

PM (c) PM10 (c) 10000 LB 10000 LB

401.152 LB

40.115 LB

--INCOMING STREAMS--

TPUT --> P114-01

--OUTGOING STREAMS--

P114-01 (100%) --> C114-01 (100%) --> S114-01 (100%) -->

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P115

Miscellaneous

Silo

DEVICE DESC: Raw Silo 2 - Tower B

CONSTR DATE: DEVICE COMMENTS:

P115, Process 00

Generic Throughput

Process

PROCESS NAME: Raw Silo #2B

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 12 Hrs/Day QTRLY SCHEDULE: Q1: 25% ANNUAL TPUT: 62680 TON

7 Dys/Wk Q2: 25%

of PRODUCT -

MINERALS

AVG TPUT: 15.54563 TON/HR

MAX TPUT: 100 TON/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

PM PM10 .029 LB / TON .0064 LB / TON **EPA EPA**

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH

UNCNTRLD 1,817.720 LB **CNTRLD** 181.772 LB

336 Dys/Yr

Q3: 25%

OZONE/DY

Q4: 25%

PM (c) PM10 (c) 10000 LB 10000 LB

401.152 LB

40.115 LB

--INCOMING STREAMS--

TPUT --> P115-00

--OUTGOING STREAMS--

P115-00 (100%) --> C115-01 (100%) --> S115-01 (100%) -->

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P116 Miscellaneous Conveyor

DEVICE DESC: Conveyor 1 - Tower B

CONSTR DATE: DEVICE COMMENTS:

P116, Process 01 Generic Throughput

Process

PROCESS NAME: Conveyor 1-Tower B

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 4 Hrs/Day 7 Dys/Wk 336 Dys/Yr

QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

ANNUAL TPUT: 125359 TON of PRODUCT - MINERALS

AVG TPUT: 93.27307 TON/HR

MAX TPUT: 100 TON/HR

--EMISSION FACTORS--

 POLLUTANT
 VALUE / UNIT
 ORIGIN

 PM
 .029 LB / TON
 DNR

 PM10
 .0064 LB / TON
 DNR

--EMISSIONS / YR--

POLLUTANT NR438_THRESH UNCNTRLD CNTRLD OZONE/DY

PM (c) 10000 LB 3,635.411 LB 10.906 LB

PM10 (c) 10000 LB 802.298 LB 2.407 LB

--INCOMING STREAMS--

TPUT --> P116-01

--OUTGOING STREAMS--

P116-01 (100%) --> C120-01 (100%) --> S120-01 (100%) -->

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P117

Miscellaneous

Conveyor

DEVICE DESC: Elevator 2 - Tower B

CONSTR DATE: DEVICE COMMENTS:

P117, Process 00

Generic Throughput

Process

PROCESS NAME: Elevator 2 B **SCC CODE:** 30502503

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

QTRLY SCHEDULE: Q1: 25%

7 Dys/Wk Q2: 25%

336 Dys/Yr

ANNUAL TPUT: 125359 TON

of PRODUCT -

Q3: 25%

MINERALS

AVG TPUT: 15.54551 TON/HR MAX TPUT: 50 TON/HR

--EMISSION FACTORS--

<u>POLLUTANT</u>

VALUE / UNIT

ORIGIN

PM PM10 .029 LB / TON .0064 LB / TON DNR DNR

--EMISSIONS / YR--

POLLUTANT

NR438 THRESH 10000 LB

<u>UNCNTRLD</u> 3,635.411 LB **CNTRLD** 10.906 LB OZONE/DY

Q4: 25%

PM (c) PM10 (c)

10000 LB

802.298 LB

2.407 LB

--INCOMING STREAMS--

TPUT --> P117-00

--OUTGOING STREAMS--

P117-00 (100%) --> C120-01 (100%) --> S120-01 (100%) -->

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P121 Miscellaneous Any Device

DEVICE DESC: Day Tank - Tower B

CONSTR DATE: DEVICE COMMENTS:

P121, Process 00 Generic Throughput

Process

PROCESS NAME: Day Tank - Tower B

SCC CODE: 30502502

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day 7 Dys/Wk

QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

336 Dys/Yr

ANNUAL TPUT: 125359 TON of PRODUCT - MINERALS

AVG TPUT: 15.54551 TON/HR

MAX TPUT: 20 TON/HR

--EMISSION FACTORS--

 POLLUTANT
 VALUE / UNIT
 ORIGIN

 PM
 .0012 LB / TON
 DNR

 PM10
 .0006 LB / TON
 DNR

--EMISSIONS / YR--

POLLUTANT NR438_THRESH UNCNTRLD CNTRLD OZONE/DY

PM (c) 10000 LB 150.431 LB .451 LB

PM10 (c) 10000 LB 75.215 LB .226 LB

--INCOMING STREAMS--

TPUT --> P121-00

--OUTGOING STREAMS--

P121-00 (100%) --> C120-01 (100%) --> S120-01 (100%) -->

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P122

Miscellaneous

Any Device

DEVICE DESC: Weigh Hopper 1 - Tower B

CONSTR DATE: DEVICE COMMENTS:

P122, Process 00

Generic Throughput

Process

PROCESS NAME: Weigh Hopper - Tower B

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

ANNUAL TPUT: 125359 TON

of PRODUCT -

MINERALS

AVG TPUT: 15.54551 TON/HR

MAX TPUT: 20 TON/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

PM PM10

.0051 LB / TON

DNR

.0024 LB / TON

DNR

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH 10000 LB

UNCNTRLD 639.331 LB

CNTRLD 1.918 LB

336 Dys/Yr

Q3: 25%

OZONE/DY

Q4: 25%

PM (c) PM10 (c)

10000 LB

300.862 LB

.903 LB

--INCOMING STREAMS--

TPUT --> P122-00

--OUTGOING STREAMS--

P122-00 (100%) --> C120-01 (100%) --> S120-01 (100%) -->

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FID:

Q4: 25%

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P123 Boiler/Furnace Process Heater

DEVICE DESC: Raw Material Heater - Tower B

CONSTR DATE: DEVICE COMMENTS:

MAX RATED CAPACITY: MMBTU/HR

P123, Process 00 Generic Throughput

Process

PROCESS NAME: Combustion of fuels at atm

pressure

SCC CODE: 10200602

PROCESS COMMENTS:

 SCHEDULE:
 24 Hrs/Day
 7 Dys/Wk
 336 Dys/Yr

 QTRLY SCHEDULE:
 Q1:
 25%
 Q3:
 25%

ANNUAL TPUT: 26.051 MMCF of Natural Gas

AVG TPUT: 3.23053 E3 FT3/H

MAX TPUT: 10 E3 FT3/H

--EMISSION FACTORS--

VALUE / UNIT <u>ORIGIN</u> **POLLUTANT AMMONIA** 3.2 LB / MMCF **EPA** NOX 100 LB / MMCF **EPA EPA** 7.6 LB / MMCF PM7.6 LB / MMCF **EPA** PM10 5.5 LB / MMCF **EPA** ROG

--EMISSIONS / YR--

 POLLUTANT
 NR438_THRESH
 UNCNTRLD
 CNTRLD
 OZONE/DY

 NOX (c)
 10000 LB
 2,605.100 LB
 2,605.100 LB
 7.157 LB

PM (c) 10000 LB 197.988 LB .059 LB

PM10 (c) 10000 LB 197.988 LB .059 LB

ROG (c) 6000 LB 143.281 LB 143.281 LB .394 LB

AMMONIA (c) (s) 4097 LB 83.363 LB 83.363 LB

--INCOMING STREAMS--

TPUT --> P123-00

--OUTGOING STREAMS--

P123-00 (100%) --> C119-01 (100%) --> C120-01 (100%) -->

\$120-01 (100%) --> OUT

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P123A

Miscellaneous

Any Device

DEVICE DESC: Emissions from Heater - Tower B
CONSTR DATE:
DEVICE COMMENTS:

P123A, Process 01

Generic Throughput

Process

PROCESS NAME: Heater Emissions - Tower B

SCC CODE: 30502720

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk Q2: 25% 336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q3: 25%

ANNUAL TPUT: 125359 TON

of PRODUCT -

MINERALS

AVG TPUT: 15.54551 TON/HR

MAX TPUT: 20 TON/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

NOX PM .031 LB / TON .029 LB / TON

EPA DNR

PM10

.0064 LB / TON

DNR

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH 10000 LB UNCNTRLD 3,886.129 LB CNTRLD 3,886.129 LB OZONE/DY 10.676 LB

Q4: 25%

NOX (c) PM (c)

10000 LB

3,635.411 LB

1.091 LB

PM10 (c)

10000 LB

802.298 LB

.241 LB

--INCOMING STREAMS--

TPUT --> P123A-01

--OUTGOING STREAMS--

P123A-01 (100%) --> C119-01 (100%) --> C120-01 (100%) --> S120-01 (100%) --> OUT

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P127 Miscellaneous **Any Device**

DEVICE DESC: Elevator 3 - Tower B

CONSTR DATE: DEVICE COMMENTS:

P127, Process 01 **Generic Throughput**

Process

PROCESS NAME: Elevator 3 - Tower B

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day QTRLY SCHEDULE: Q1: 25%

ANNUAL TPUT: 253151002 LB

7 Dys/Wk Q2: 25%

of PRODUCT -

MINERALS

AVG TPUT: 31392.73338 LB/HR

MAX TPUT: 32000 LB/HR

--EMISSION FACTORS--

POLLUTANT VALUE / UNIT PΜ

.029 LB / TON

DNR DNR

PM10 .0064 LB / TON

--EMISSIONS / YR--

POLLUTANT NR438 THRESH 10000 LB PM (c)

UNCNTRLD 3,670.690 LB

<u>ORIGIN</u>

CNTRLD 11.012 LB

336 Dys/Yr

Q3: 25%

OZONE/DY

Q4: 25%

PM10 (c)

10000 LB

810.083 LB

2.430 LB

--INCOMING STREAMS--

TPUT --> P127-01

--OUTGOING STREAMS--

P127-01 (100%) --> C120-01 (100%) --> S120-01 (100%) -->

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P128

Miscellaneous

Any Device

DEVICE DESC: Resin Tank - Tower B **CONSTR DATE:**

DEVICE COMMENTS:

P128, Process 01

Generic Throughput

Process

PROCESS NAME: Resin Tank - Tower B

SCC CODE: 30502502

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk Q2: 25%

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25% ANNUAL TPUT: 7419420 LB

of PRODUCT -

Q3: 25%

MINERALS

AVG TPUT: 920.06696 LB/HR

MAX TPUT: 30000 LB/HR

-- EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

ORIGIN

.0062 LB / TON PΜ PM10

DNR

.0003 LB / TON

DNR

--EMISSIONS / YR--

POLLUTANT

NR438 THRESH

UNCNTRLD 23.000 LB

CNTRLD .069 LB

OZONE/DY

Q4: 25%

PM (c) PM10 (c) 10000 LB 10000 LB

1.113 LB

.003 LB

--INCOMING STREAMS--

TPUT --> P128-01

--OUTGOING STREAMS--

P128-01 (100%) --> C120-01 (100%) --> S120-01 (100%) -->

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P129

Miscellaneous

Any Device

DEVICE DESC: Weigh Hopper 2 - Tower B

CONSTR DATE: DEVICE COMMENTS:

P129, Process 00

Generic Throughput

Process

PROCESS NAME: Weigh Hopper 2 - Tower B

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

QTRLY SCHEDULE: Q1: 25%

ANNUAL TPUT: 7419420 LB

7 Dys/Wk Q2: 25%

of PRODUCT -

MINERALS

AVG TPUT: 920.06696 LB/HR

MAX TPUT: 2000 LB/HR

--EMISSION FACTORS--

POLLUTANT PM

VALUE / UNIT

.0051 LB / TON .0024 LB / TON <u>ORIGIN</u>

DNR DNR

--EMISSIONS / YR--

POLLUTANT PM (c)

NR438_THRESH 10000 LB

UNCNTRLD 18.920 LB

CNTRLD .057 LB

336 Dys/Yr

Q3: 25%

OZONE/DY

Q4: 25%

PM10 (c)

PM10

10000 LB

8.903 LB

.027 LB

--INCOMING STREAMS--

TPUT --> P129-00

--OUTGOING STREAMS--

P129-00 (100%) --> C120-01 (100%) --> S120-01 (100%) -->

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P13

Miscellaneous

Conveyor

DEVICE DESC: Elevator 1 - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P13, Process 00

Generic Throughput

Process

PROCESS NAME: Elevator # 1

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 4 Hrs/Day

QTRLY SCHEDULE: Q1: 25%

ANNUAL TPUT: 113968 TON

Q2: 25%

of PRODUCT -

MINERALS

7 Dys/Wk

AVG TPUT: 84.79762 TON/HR MAX TPUT: 100 TON/HR

--EMISSION FACTORS--

POLLUTANT

PM

PM10

VALUE / UNIT

.029 LB / TON .0064 LB / TON <u>ORIGIN</u>

OTHR OTHR

--EMISSIONS / YR--

POLLUTANT

NR438 THRESH

UNCNTRLD 3,305.072 LB **CNTRLD** 9.915 LB

336 Dys/Yr

Q3: 25%

OZONE/DY

Q4: 25%

PM (c) PM10 (c) 10000 LB 10000 LB

729.395 LB

2.188 LB

--INCOMING STREAMS--

TPUT --> P13-00

--OUTGOING STREAMS--

P13-00 (100%) --> C20-00 (100%) --> S20-00 (100%) -->

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P14

Miscellaneous

Silo

DEVICE DESC: Raw Silo 1 - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P14, Process 00

Generic Throughput

Process

PROCESS NAME: Raw Silo #1

SCC CODE: 30502502

PROCESS COMMENTS:

SCHEDULE: 8 Hrs/Day

7 Dys/Wk

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

ANNUAL TPUT: 37989 TON

of PRODUCT -

MINERALS

AVG TPUT: 14.13281 TON/HR

MAX TPUT: 100 TON/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

ORIGIN

PΜ PM10 .000615 LB / TON

AP42

AP42 .000291 LB / TON

-- EMISSIONS / YR--

POLLUTANT

NR438_THRESH

UNCNTRLD 23.363 LB

CNTRLD 2.336 LB

OZONE/DY

Q4: 25%

PM (c) PM10 (c) 10000 LB 10000 LB

11.055 LB

1.105 LB

--INCOMING STREAMS--

TPUT --> P14-00

--OUTGOING STREAMS--

P14-00 (100%) --> C14-00 (100%) --> \$14-00 (100%) -->

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P141

Miscellaneous

Screen

DEVICE DESC: Shaker Screen - Tower B

CONSTR DATE: DEVICE COMMENTS:

P141, Process 00

Generic Throughput

Process

PROCESS NAME: Simplicity Screen

SCC CODE: 30502502

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

ANNUAL TPUT: 253151002 LB

of PRODUCT -

MINERALS

AVG TPUT: 31392.73338 LB/HR MAX TPUT: 32000 LB/HR

-- EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

РМ PM10 .003 LB / TON .0011 LB / TON DNR DNR

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH

UNCNTRLD 379.727 LB

CNTRLD 1.139 LB

OZONE/DY

Q4: 25%

PM (c) PM10 (c) 10000 LB 10000 LB

139.233 LB

.418 LB

--INCOMING STREAMS--

TPUT --> P141-00

--OUTGOING STREAMS--

P141-00 (100%) --> C120-01 (100%) --> S12Ó-01 (100%) -->

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Q4: 25%

Any Device P142 Miscellaneous

> **DEVICE DESC:** Elevator 4 - Tower B **CONSTR DATE:**

DEVICE COMMENTS:

Generic Throughput P142, Process 00

Process

PROCESS NAME: Elevator 4 - Tower B

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

QTRLY SCHEDULE: Q1: 25%

ANNUAL TPUT: 253151002 LB

of PRODUCT -

7 Dys/Wk

Q2: 25%

ORIGIN

DNR

DNR

336 Dys/Yr

Q3: 25%

MINERALS

AVG TPUT: 31392.73338 LB/HR

MAX TPUT: 32000 LB/HR

--EMISSION FACTORS--

VALUE / UNIT POLLUTANT PM

.029 LB / TON

.0064 LB / TON PM10

--EMISSIONS / YR--

OZONE/DY **UNCNTRLD** CNTRLD <u>POLLUTANT</u> NR438_THRESH

3,670.690 LB 11.012 LB 10000 LB PM (c)

10000 LB 810.083 LB 2,430 LB PM10 (c)

--INCOMING STREAMS--

TPUT --> P142-00

--OUTGOING STREAMS--

P142-00 (100%) --> C120-01 (100%) --> S120-01 (100%) -->

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P143

Miscellaneous

Screen

DEVICE DESC: Scalping Screen - Tower B

CONSTR DATE: DEVICE COMMENTS:

P143, Process 01

Generic Throughput

Process

PROCESS NAME: Sweco

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk Q2: 25%

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q3: 25%

ANNUAL TPUT: 253151002 LB

of PRODUCT -

MINERALS

AVG TPUT: 31392.73338 LB/HR

MAX TPUT: 32000 LB/HR

--EMISSION FACTORS ---

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

ΡМ PM10 .003 LB / TON .0011 LB / TON DNR DNR

-- EMISSIONS / YR--

POLLUTANT

NR438_THRESH

UNCNTRLD 379.727 LB

CNTRLD 1.139 LB OZONE/DY

Q4: 25%

PM (c) PM10 (c) 10000 LB 10000 LB

139.233 LB

.418 LB

--INCOMING STREAMS--

TPUT --> P143-01

--OUTGOING STREAMS--

P143-01 (100%) --> C120-01 (100%) --> S120-01 (100%) -->

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P144

Miscellaneous

Cooler

DEVICE DESC: Product Cooler - Tower B

CONSTR DATE: DEVICE COMMENTS:

P144, Process 0

Generic Throughput

Process

PROCESS NAME: Product Cooler - Tower B

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25% of PRODUCT - Q3: 25%

ANNUAL TPUT: 253151002 LB

MINERALS

AVG TPUT: 31392.73338 LB/HR

MAX TPUT: 32000 LB/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

ORIGIN

PM PM10

.003 LB / TON .0011 LB / TON DNR DNR

--EMISSIONS / YR--

POLLUTANT

NR438 THRESH

UNCNTRLD 379.727 LB

CNTRLD 1.139 LB

OZONE/DY

Q4: 25%

PM (c) PM10 (c) 10000 LB 10000 LB

139.233 LB

.418 LB

--INCOMING STREAMS--

TPUT --> P144-0

--OUTGOING STREAMS--

P144-0 (100%) --> C120-01 (100%) --> S120-01 (100%) -->

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P145

Miscellaneous

Any Device

DEVICE DESC: Elevator 5 - Tower B

CONSTR DATE: DEVICE COMMENTS:

P145, Process 00

Generic Throughput

Process

PROCESS NAME: Elevator 5 - Tower B

SCC CODE: 30502503

ANNUAL TPUT: 253151002 LB

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk Q2: 25%

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

of PRODUCT -

Q3: 25%

MINERALS

AVG TPUT: 31392.73338 LB/HR

MAX TPUT: 32000 LB/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

PM PM10 .058 LB / TON .0128 LB / TON DNR DNR

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH

UNCNTRLD 7,341.379 LB **CNTRLD** 22.024 LB OZONE/DY

Q4: 25%

PM (c) PM10 (c) 10000 LB 10000 LB

1,620.166 LB

4.861 LB

--INCOMING STREAMS--

TPUT --> P145-00

--OUTGOING STREAMS--

P145-00 (100%) --> C120-01 (100%) --> S120-01 (100%) -->

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P146

Miscellaneous

Silo

DEVICE DESC: Finished Silo 1 - Tower B

CONSTR DATE: DEVICE COMMENTS:

P146, Process 00

Generic Throughput

Process

PROCESS NAME: Finshed Silo 1 - Tower B

SCC CODE: 30200610

PROCESS COMMENTS:

SCHEDULE: 8 Hrs/Day

7 Dys/Wk

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

ANNUAL TPUT: 84383667 LB

of PRODUCT -

AGRICULTURE

AVG TPUT: 31392.73326 LB/HR

MAX TPUT: 80000 LB/HR

-- EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

PM

.0006 LB / TON .0003 LB / TON DNR DNR

PM10

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH

UNCNTRLD 25.315 LB

CNTRLD .076 LB

OZONE/DY

Q4: 25%

PM (c) PM10 (c) 10000 LB 10000 LB

12.658 LB

.038 LB

--INCOMING STREAMS--

TPUT --> P146-00

--OUTGOING STREAMS--

P146-00 (100%) --> C120-01 (100%) --> S120-01 (100%) -->

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P147

Miscellaneous

Silo

DEVICE DESC: Finished Silo 2 - Tower B

CONSTR DATE: DEVICE COMMENTS:

P147, Process 01

Generic Throughput

Process

PROCESS NAME: Finsished Silo 2 - Tower B

SCC CODE: 30200610

PROCESS COMMENTS:

SCHEDULE: 8 Hrs/Day

QTRLY SCHEDULE: Q1: 25%

7 Dys/Wk Q2: 25%

336 Dys/Yr Q3: 25%

ANNUAL TPUT: 84383667 LB

of PRODUCT -

AGRICULTURE

AVG TPUT: 31392.73326 LB/HR

MAX TPUT: 80000 LB/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

PMPM10

.0006 LB / TON .0003 LB / TON DNR DNR

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH

UNCNTRLD 25.315 LB

CNTRLD .076 LB

OZONE/DY

Q4: 25%

PM (c) PM10 (c)

10000 LB 10000 LB

12.658 LB

.038 LB

--INCOMING STREAMS--

TPUT --> P147-01

--OUTGOING STREAMS--

P147-01 (100%) --> C120-01 (100%) --> S120-01 (100%) -->

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Silo

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P148

Miscellaneous

DEVICE DESC: Finished Silo 3 - Tower B

CONSTR DATE: DEVICE COMMENTS:

P148, Process 01

Generic Throughput

Process

PROCESS NAME: Finished Silo 3 - Tower B

SCC CODE: 30200610

PROCESS COMMENTS:

SCHEDULE: 8 Hrs/Day

7 Dys/Wk Q2: 25%

336 Dys/Yr Q3: 25%

QTRLY SCHEDULE: Q1: 25% **ANNUAL TPUT: 84383667 LB**

of PRODUCT -

AGRICULTURE

AVG TPUT: 31392.73326 LB/HR

MAX TPUT: 80000 LB/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

PM PM10 .0029 LB / TON .0029 LB / TON <u>ORIGIN</u> DNR DNR

-- EMISSIONS / YR--

POLLUTANT

NR438_THRESH

UNCNTRLD 122.356 LB

CNTRLD .367 LB

OZONE/DY

Q4: 25%

PM (c) PM10 (c) 10000 LB 10000 LB

122.356 LB

.367 LB

--INCOMING STREAMS--

TPUT --> P148-01

--OUTGOING STREAMS--

P148-01 (100%) --> C120-01 (100%) --> S120-01 (100%) -->

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P15

Miscellaneous

Silo

DEVICE DESC: Raw Silo 2 - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P15, Process 00

Generic Throughput

Process

PROCESS NAME: Raw Silo #2

SCC CODE: 30502502

PROCESS COMMENTS:

SCHEDULE: 8 Hrs/Day

7 Dys/Wk Q2: 25%

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25% ANNUAL TPUT: 37989 TON

of PRODUCT -

Q3: 25%

MINERALS

AVG TPUT: 14.13281 TON/HR

MAX TPUT: 100 TON/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

PM .000615 LB / TON PM10

OTHR

.000291 LB / TON

OTHR

--EMISSIONS / YR--

POLLUTANT

NR438 THRESH 10000 LB

UNCNTRLD 23.363 LB

CNTRLD 2.336 LB

OZONE/DY

Q4: 25%

PM (c) PM10 (c)

10000 LB

11.055 LB

1.105 LB

--INCOMING STREAMS--

TPUT --> P15-00

--OUTGOING STREAMS--

P15-00 (100%) --> C15-00 (100%) --> S15-00 (100%) -->

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Q4: 25%

OZONE/DY

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P151 Miscellaneous **Any Device**

DEVICE DESC: Batch Mixer - Tower B

CONSTR DATE: DEVICE COMMENTS:

P151, Process 00 **Generic Throughput**

Process

PROCESS NAME: Batch Mixer **SCC CODE: 30502506**

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

QTRLY SCHEDULE: Q1: 25%

ANNUAL TPUT: 253151002 LB

7 Dys/Wk Q2: 25% of PRODUCT - 336 Dys/Yr

Q3: 25%

MINERALS

AVG TPUT: 31392.73338 LB/HR MAX TPUT: 38000 LB/HR

--EMISSION FACTORS--

POLLUTANT VALUE / UNIT <u>ORIGIN</u> .73287 LB / TON **AMMONIA MBAL PHENOL** .1205 LB / TON STK PM .1355 LB / TON STK PM10 .1355 LB / TON STK ROG .1205 LB / TON STK

--EMISSIONS / YR--

POLLUTANT NR438_THRESH **UNCNTRLD CNTRLD** 10000 LB 17,150.980 LB 4,973.784 LB PM (c)

10000 LB PM10 (c) 17,150.980 LB 4,973.784 LB

6000 LB 15,252.348 LB 15.085 LB ROG (c) 5,490.845 LB

156,577.692 LB 152,886.686 LB AMMONIA (c) (s) 4097 LB PHENOL (c) (fs) 4528 LB 15,252.348 LB 6,939.818 LB

--INCOMING STREAMS--

TPUT --> P151-00

Example Uncontrolled NH3:

--OUTGOING STREAMS--P151-00 (100%) --> C150-01 (100%) --> S150-01 (100%) -->

OUT

253,151,002 lbs-product/yr / (2,000 lb/ton) x 0.73287 lb-NH3/ton-product =92,763 lbs-NH3/yr In contrast, the online system calculated an emission rate of 156,578 lbs-NH3/yr, which is 63,815 lbs-NH3/yr greater than it should've been for the inlet loading to the scrubber.

P151, Process 01 **Generic Throughput Process**

PROCESS NAME: Ammonia SCC CODE: 30100101

PROCESS COMMENTS: Process accounts for

"secondary" emission of NH3 initially controlled by C150, but then volatizes from a scrubber water tank w/increasing pH. Resulting fugitive indoor emissions exhaust via roof vent

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SCHEDULE: 24 Hrs/Day QTRLY SCHEDULE: Q1: 25%

ANNUAL TPUT: 6728 LB

336 Dys/Yr 7 Dys/Wk Q2: 25% Q3: 25%

Q4: 25%

AVG TPUT: .83433 LB/HR MAX TPUT: 2 LB/HR

of PRODUCT -

CHEMICAL

--EMISSION FACTORS--

POLLUTANT AMMONIA PHENOL

ROG

VALUE / UNIT .73287 LB/LB 0 LB/TON

0 LB/TON

<u>ORIGIN</u> **MBAL EPA**

EPA

--EMISSIONS / YR--

POLLUTANT AMMONIA (c) (s) NR438_THRESH 4097 LB

<u>UNCNTRLD</u> 4,930.749 LB **CNTRLD** 4,930.749 LB OZONE/DY

--INCOMING STREAMS--

TPUT --> P151-01

--OUTGOING STREAMS--

P151-01 (100%) --> OUT

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P152 Miscellaneous **Any Device**

DEVICE DESC: Continuous Mixer - Tower B

CONSTR DATE: DEVICE COMMENTS:

P152, Process 00 **Generic Throughput**

Process

PROCESS NAME: Continuous Mixer - Tower B

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day QTRLY SCHEDULE: Q1: 25%

7 Dys/Wk Q2: 25% 336 Dys/Yr Q3: 25%

ANNUAL TPUT: 253151002 LB

of PRODUCT -**MINERALS**

Q4: 25%

OZONE/DY

AVG TPUT: 31392.73338 LB/HR MAX TPUT: 38000 LB/HR

-- EMISSION FACTORS--

<u>ORIGIN</u> **POLLUTANT VALUE / UNIT AMMONIA** .73287 LB / TON **MBAL PHENOL** .1205 LB / TON STK ΡМ .1355 LB / TON STK PM10 .1355 LB / TON STK ROG .1205 LB / TON STK

--EMISSIONS / YR--

NR438 THRESH **POLLUTANT UNCNTRLD** CNTRLD PM (c) 10000 LB 17,150.980 LB 4,973.784 LB

PM10 (c) 10000 LB 17,150.980 LB 4,973.784 LB

ROG (c) 6000 LB 15,252.348 LB 5,490.845 LB 15,085 LB

AMMONIA (c) (s) 4097 LB 156,577.692 LB 152,886.686 LB PHENOL (c) (fs) 4528 LB 15,252.348 LB 6,939.818 LB

--INCOMING STREAMS--

TPUT --> P152-00

--OUTGOING STREAMS--

P152-00 (100%) --> C150-01 (100%) --> S150-01 (100%) -->

P152, Process 01 **Generic Throughput**

Process

PROCESS NAME: Ammonia SCC CODE: 30100101

PROCESS COMMENTS: Process accounts for

"secondary" emission of NH3 initially controlled by C150, but then volatizes from a scrubber water tank w/increasing pH. Resulting fugitive indoor emissions exhaust via roof vent

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SCHEDULE: 24 Hrs/Day QTRLY SCHEDULE: Q1: 25%

ANNUAL TPUT: 6728 LB

7 Dys/Wk 336 Dys/Yr Q2: 25% of PRODUCT -

Q3: 25%

Q4: 25%

AVG TPUT: .83433 LB/HR

MAX TPUT: 2 LB/HR

--EMISSION FACTORS--

POLLUTANT AMMONIA PHENOL ROG

VALUE / UNIT .73287 LB / LB 0 LB/TON 0 LB/TON

<u>ORIGIN</u> MBAL EPA **EPA**

--EMISSIONS / YR--

POLLUTANT AMMONIA (c) (s) NR438 THRESH 4097 LB

UNCNTRLD 4,930.749 LB CNTRLD 4,930.749 LB OZONE/DY

--INCOMING STREAMS--

TPUT --> P152-01

--OUTGOING STREAMS--P152-01 (100%) --> OUT

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P16

Miscellaneous

Conveyor

DEVICE DESC: Conveyor 1 - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P16, Process 00

Generic Throughput

Process

PROCESS NAME: Conveyors #1

SCC CODE: 30502503

ANNUAL TPUT: 113968 TON

PROCESS COMMENTS:

SCHEDULE: 4 Hrs/Day

QTRLY SCHEDULE: Q1: 25%

7 Dys/Wk

Q2: 25%

of PRODUCT -

MINERALS

AVG TPUT: 84.79762 TON/HR

MAX TPUT: 100 TON/HR

--EMISSION FACTORS--

POLLUTANT

PM

PM10

VALUE / UNIT

.029 LB / TON

<u>ORIGIN</u>

.0064 LB / TON

OTHR OTHR

-- EMISSIONS / YR--

POLLUTANT

NR438 THRESH

UNCNTRLD 3,305.072 LB **CNTRLD** 9.915 LB

336 Dys/Yr

Q3: 25%

OZONE/DY

Q4: 25%

PM (c) PM10 (c)

10000 LB 10000 LB

729.395 LB

2.188 LB

--INCOMING STREAMS--

TPUT --> P16-00

--OUTGOING STREAMS--

P16-00 (100%) --> C20-00 (100%) --> S2Ó-00 (100%) -->

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P161

Miscellaneous

Conveyor

DEVICE DESC: Conveyor 2 - Tower B

CONSTR DATE: DEVICE COMMENTS:

P161, Process 01

Generic Throughput

Process

PROCESS NAME: Conveyor 2 - Tower B

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 12 Hrs/Day **ANNUAL TPUT: 253151002 LB**

7 Dys/Wk

336 Dys/Yr Q3: 25%

QTRLY SCHEDULE: Q1: 25%

Q2: 25% of PRODUCT -

MINERALS

AVG TPUT: 31392.73338 LB/HR MAX TPUT: 32000 LB/HR

-- EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

.029 LB / TON PM.0064 LB / TON PM10

DNR DNR

-- EMISSIONS / YR--

POLLUTANT

NR438_THRESH 10000 LB

UNCNTRLD 3,670.690 LB **CNTRLD** 11.012 LB OZONE/DY

Q4: 25%

PM (c) PM10 (c)

10000 LB

810.083 LB

2.430 LB

-- INCOMING STREAMS--

TPUT --> P161-01

--OUTGOING STREAMS--

P161-01 (100%) --> C120-01 (100%) --> S120-01 (100%) -->

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P163

Miscellaneous

Conveyor

DEVICE DESC: Weigh Belt - Tower B

CONSTR DATE: DEVICE COMMENTS:

P163, Process 00

Generic Throughput

Process

PROCESS NAME: Weigh Belt - Tower B

SCC CODE: 30502503

ANNUAL TPUT: 253151002 LB

PROCESS COMMENTS:

SCHEDULE: 12 Hrs/Day

7 Dys/Wk Q2: 25%

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

of PRODUCT -

Q3: 25%

MINERALS

AVG TPUT: 62785.46677 LB/HR **MAX TPUT:** 120000 LB/HR

-- EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

ΡМ PM10 .029 LB / TON

DNR

.0064 LB / TON

DNR

-- EMISSIONS / YR--

POLLUTANT

NR438_THRESH 10000 LB

<u>UNCNTRLD</u> 3,670.690 LB **CNTRLD** 11.012 LB OZONE/DY

Q4: 25%

PM (c) PM10 (c)

10000 LB

810.083 LB

2.430 LB

-- INCOMING STREAMS--

TPUT --> P163-00

--OUTGOING STREAMS--

P163-00 (100%) --> C120-01 (100%) --> S120-01 (100%) -->

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P17

Miscellaneous

Conveyor

DEVICE DESC: Elevator 2 - Tower A **CONSTR DATE: 12/01/2005**

DEVICE COMMENTS:

P17, Process 00

Generic Throughput

Process

PROCESS NAME: Elevator #2

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

ANNUAL TPUT: 113968 TON

of PRODUCT -

MINERALS

AVG TPUT: 14.13294 TON/HR

MAX TPUT: 50 TON/HR

--EMISSION FACTORS--

<u>POLLUTANT</u>

VALUE / UNIT

<u>ORIGIN</u>

PMPM10 .029 LB / TON .0064 LB / TON OTHR

OTHR

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH

UNCNTRLD 3,305.072 LB **CNTRLD** 9.915 LB OZONE/DY

Q4: 25%

PM (c) PM10 (c)

10000 LB 10000 LB

729.395 LB

2.188 LB

--INCOMING STREAMS--

TPUT --> P17-00

--OUTGOING STREAMS--

P17-00 (100%) --> C20-00 (100%) --> S20-00 (100%) -->

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P21

Miscellaneous

Any Device

DEVICE DESC: Day Tank 1 - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P21, Process 01

Generic Throughput

Process

PROCESS NAME: Day Tank

SCC CODE: 30502502

ANNUAL TPUT: 113968 TON

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk

336 Dys/Yr Q3: 25%

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

of PRODUCT -

MINERALS

AVG TPUT: 14.13294 TON/HR

MAX TPUT: 15 TON/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

ORIGIN

PMPM10 .00123 LB / TON .000582 LB / TON **OTHR OTHR**

-- EMISSIONS / YR--

POLLUTANT

NR438_THRESH 10000 LB

UNCNTRLD 140.181 LB

CNTRLD .421 LB

OZONE/DY

Q4: 25%

PM (c) PM10 (c)

10000 LB

66.329 LB

.199 LB

-- INCOMING STREAMS--

TPUT --> P21-01

--OUTGOING STREAMS--

P21-01 (100%) --> C20-00 (100%) --> S20-00 (100%) -->

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P22

Miscellaneous

Silo

DEVICE DESC: Raw Silo 3 - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P22, Process 02

Generic Throughput

Process

PROCESS NAME: Raw Silo 3

SCC CODE: 30502502

PROCESS COMMENTS:

SCHEDULE: 8 Hrs/Day **ANNUAL TPUT: 37989 TON**

QTRLY SCHEDULE: Q1: 25%

7 Dys/Wk

Q2: 25%

of PRODUCT -

MINERALS

AVG TPUT: 14.13281 TON/HR MAX TPUT: 100 TON/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

PM PM10 .0006 LB / TON .0003 LB / TON

DNR DNR

--EMISSIONS / YR--

POLLUTANT

NR438 THRESH

UNCNTRLD 22.793 LB

CNTRLD 2.279 LB

336 Dys/Yr

Q3: 25%

OZONE/DY

Q4: 25%

PM (c) PM10 (c) 10000 LB 10000 LB

11.397 LB

1.140 LB

--INCOMING STREAMS--

TPUT --> P22-02

--OUTGOING STREAMS--

P22-02 (100%) --> C22-01 (100%) --> S22-01 (100%) -->

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FID:

Q4: 25%

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P23 Miscellaneous **Any Device**

DEVICE DESC: Weigh Hopper 1 - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P23, Process 01 **Generic Throughput**

Process

PROCESS NAME: Weigh Hopper 1

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk 336 Dys/Yr QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25%

of PRODUCT -ANNUAL TPUT: 113968 TON

MINERALS

AVG TPUT: 14.13294 TON/HR MAX TPUT: 15 TON/HR

--EMISSION FACTORS--

POLLUTANT VALUE / UNIT ORIGIN PM.0051 LB/LB OTHR PM10 .0024 LB/LB **OTHR**

-- EMISSIONS / YR--

POLLUTANT NR438_THRESH **UNCNTRLD CNTRLD** OZONE/DY

PM (c) 10000 LB 1,162,473.600 LB 3,487.421 LB

10000 LB 547,046.400 LB PM10 (c) 1,641.139 LB

--INCOMING STREAMS--

TPUT --> P23-01

--OUTGOING STREAMS--

P23-01 (100%) --> C20-00 (100%) --> S20-00 (100%) -->

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P24 Boiler/Furnace Process Heater

DEVICE DESC: Raw Material Heater - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

MAX RATED CAPACITY: MMBTU/HR

P24, Process 01 Generic Throughput

Process

PROCESS NAME: Combustion of fuels at

atmospheric pressure

SCC CODE: 10200602

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day 7 Dys/Wk 336 Dys/Yr

ANNUAL TPUT: 23.665 MMCF of Natural Gas

AVG TPUT: 2.93465 E3 FT3/H **MAX TPUT:** 10 E3 FT3/H

--EMISSION FACTORS--

ORIGIN POLLUTANT VALUE / UNIT **EPA** AIMONIA 3.2 LB / MMCF EPA NOX 100 LB / MMCF РМ 8.6 LB / MMCF **EPA** PM10 8.6 LB / MMCF **EPA** ROG 5.5 LB / MMCF **EPA**

--EMISSIONS / YR--

 POLLUTANT
 NR438_THRESH
 UNCNTRLD
 CNTRLD
 OZONE/DY

 NOX (c)
 10000 LB
 2,366.500 LB
 2,366.500 LB
 6.501 LB

PM (c) 10000 LB 203.519 LB .061 LB PM10 (c) 10000 LB 203.519 LB .061 LB

ROG (c) 6000 LB 130.158 LB 130.158 LB .358 LB

AMMONIA (c) (s) 4097 LB 75.728 LB 75.728 LB

--INCOMING STREAMS--

TPUT --> P24-01

--OUTGOING STREAMS--

P24-01 (100%) --> C19-01 (100%) --> C20-00 (100%) --> S20-00 (100%) --> OUT

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Q4: 25%

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P24A Miscellaneous **Any Device**

DEVICE DESC: Dust Emissions from (P24) - Tower A

CONSTR DATE: DEVICE COMMENTS:

P24A, Process 01 **Generic Throughput**

Process

PROCESS NAME: Sand Heating

SCC CODE: 30502720

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk 336 Dys/Yr QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25%

of PRODUCT -ANNUAL TPUT: 113968 TON

MINERALS

AVG TPUT: 14.13294 TON/HR MAX TPUT: 15 TON/HR

--EMISSION FACTORS--

POLLUTANT VALUE / UNIT ORIGIN NOX .031 LB / TON **EPA** .029 LB / TON DNR PMPM10 .0064 LB / TON DNR

--EMISSIONS / YR--

NR438_THRESH **UNCNTRLD CNTRLD** OZONE/DY **POLLUTANT** NOX (c) 10000 LB 3,533.008 LB 3,533.008 LB 9.706 LB

PM (c) 10000 LB 3,305.072 LB .992 LB 10000 LB 729.395 LB .219 LB PM10 (c)

--INCOMING STREAMS--

TPUT --> P24A-01

--OUTGOING STREAMS--

P24A-01 (100%) --> C19-01 (100%) --> C20-00 (100%) --> \$20-00 (100%) --> OUT

ARP-Taylor01163

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P27

Miscellaneous

Any Device

DEVICE DESC: Elevator 3 - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P27, Process 01

Generic Throughput

Process

PROCESS NAME: Elevator 3

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk

336 Dys/Yr Q3: 25%

QTRLY SCHEDULE: Q1: 25%

ANNUAL TPUT: 229961598 LB

Q2: 25% of PRODUCT -

MINERALS

AVG TPUT: 28517.06324 LB/HR

MAX TPUT: 30000 LB/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

ORIGIN

PM PM10 .029 LB / TON

DNR DNR

.0064 LB / TON

--EMISSIONS / YR--

<u>POLLUTANT</u>

NR438_THRESH 10000 LB

UNCNTRLD 3,334.443 LB **CNTRLD** 10.003 LB OZONE/DY

Q4: 25%

PM (c) PM10 (c)

10000 LB

735.877 LB

2.208 LB

--INCOMING STREAMS--

TPUT --> P27-01

--OUTGOING STREAMS--

P27-01 (100%) --> C20-00 (100%) --> S20-00 (100%) -->

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FID:

Q4: 25%

OZONE/DY

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P28 Miscellaneous **Any Device**

DEVICE DESC: Resin Tank - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P28, Process 01 **Generic Throughput**

Process

PROCESS NAME: Resin Tank

SCC CODE: 30502502

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

336 Dys/Yr 7 Dys/Wk Q2: 25% Q3: 25%

QTRLY SCHEDULE: Q1: 25%

of PRODUCT -

ANNUAL TPUT: 6665463 LB

MINERALS

AVG TPUT: 826.57031 LB/HR MAX TPUT: 30000 LB/HR

--EMISSION FACTORS--

POLLUTANT VALUE / UNIT

<u>ORIGIN</u> .00615 LB / TON OTHR

PM.000291 LB / TON PM10

OTHR

--EMISSIONS / YR--

NR438_THRESH **POLLUTANT**

UNCNTRLD CNTRLD

PM (c) 10000 LB

20.496 LB .061 LB

10000 LB .970 LB .003 LB PM10 (c)

--INCOMING STREAMS--

TPUT --> P28-01

--OUTGOING STREAMS--

P28-01 (100%) --> C20-00

(100%) --> S2Ó-00 (100%) -->

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P29

Miscellaneous

Any Device

DEVICE DESC: Weigh Hopper 2 - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P29, Process 01

Generic Throughput

Process

PROCESS NAME: Resin Weigh Hopper

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

QTRLY SCHEDULE: Q1: 25%

ANNUAL TPUT: 6665463 LB

7 Dys/Wk Q2: 25%

336 Dys/Yr Q3: 25%

of PRODUCT -

MINERALS

AVG TPUT: 826.57031 LB/HR MAX TPUT: 2000 LB/HR

--EMISSION FACTORS--

POLLUTANT PM

VALUE / UNIT

.0051 LB / TON

<u>ORIGIN</u>

.0024 LB / TON

OTHR OTHR

-- EMISSIONS / YR--

<u>POLLUTANT</u> PM (c)

NR438_THRESH 10000 LB

UNCNTRLD 16.997 LB

CNTRLD .051 LB

OZONE/DY

Q4: 25%

PM10 (c)

PM10

10000 LB

7.999 LB

.024 LB

--INCOMING STREAMS--

TPUT --> P29-01

--OUTGOING STREAMS--

P29-01 (100%) --> C20-00 (100%) --> S20-00 (100%) -->

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P41

Miscellaneous

Screen

DEVICE DESC: Shaker Screen - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P41, Process 01

Generic Throughput

Process

PROCESS NAME: Simplicity Screen

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk Q2: 25%

336 Dys/Yr Q3: 25%

QTRLY SCHEDULE: Q1: 25% **ANNUAL TPUT: 229961598 LB**

of PRODUCT -

MINERALS

AVG TPUT: 28517.06324 LB/HR

MAX TPUT: 30000 LB/HR

-- EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

PM .003 LB / TON PM10 .0011 LB / TON

OTHR OTHR

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH 10000 LB

UNCNTRLD 344.942 LB

CNTRLD 1.035 LB OZONE/DY

Q4: 25%

PM (c) PM10 (c)

10000 LB

126.479 LB

.379 LB

--INCOMING STREAMS--

TPUT --> P41-01

--OUTGOING STREAMS--

P41-01 (100%) --> C20-00 (100%) --> S2Ó-00 (100%) -->

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P42

Miscellaneous

Any Device

DEVICE DESC: Elevator 4 - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P42, Process 01

Generic Throughput

Process

PROCESS NAME: Elevator #4

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

ANNUAL TPUT: 229961598 LB

of PRODUCT -

MINERALS

AVG TPUT: 28517.06324 LB/HR

MAX TPUT: 30000 LB/HR

-- EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

PM PM10

.029 LB / TON .0064 LB / TON **EPA EPA**

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH 10000 LB

UNCNTRLD 3,334.443 LB **CNTRLD** 10.003 LB OZONE/DY

Q4: 25%

PM (c) PM10 (c)

10000 LB

735.877 LB

2.208 LB

--INCOMING STREAMS--

TPUT --> P42-01

--OUTGOING STREAMS--

P42-01 (100%) --> C20-00 (100%) --> S2Ó-00 (100%) -->

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P43

Miscellaneous

Screen

DEVICE DESC: Scalping Screen - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P43, Process 01

Generic Throughput

Process

PROCESS NAME: Sweco Screen

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk Q2: 25%

336 Dys/Yr Q3: 25%

QTRLY SCHEDULE: Q1: 25% **ANNUAL TPUT: 229961598 LB**

of PRODUCT -

MINERALS

AVG TPUT: 28517.06324 LB/HR

MAX TPUT: 30000 LB/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

ORIGIN

PMPM10 .003 LB / TON .0011 LB / TON

OTHR OTHR

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH

UNCNTRLD 344.942 LB

CNTRLD 1.035 LB

OZONE/DY

Q4: 25%

PM (c) PM10 (c) 10000 LB 10000 LB

126.479 LB

.379 LB

-- INCOMING STREAMS--

TPUT --> P43-01

--OUTGOING STREAMS--

P43-01 (100%) --> C20-00 (100%) --> S20-00 (100%) -->

TUÓ

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P44

Miscellaneous

Cooler

DEVICE DESC: Product Cooler - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P44, Process 01

Generic Throughput

Process

PROCESS NAME: Cooling

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

ANNUAL TPUT: 229961598 LB

of PRODUCT -

MINERALS

AVG TPUT: 28517.06324 LB/HR

MAX TPUT: 30000 LB/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

PMPM10 .003 LB / TON

OTHR

.0011 LB / TON

OTHR

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH

UNCNTRLD 344.942 LB

CNTRLD 1.035 LB OZONE/DY

Q4: 25%

PM (c) PM10 (c) 10000 LB 10000 LB

126.479 LB

.379 LB

--INCOMING STREAMS--

TPUT --> P44-01

--OUTGOING STREAMS--

P44-01 (100%) --> C20-00 (100%) --> S20-00 (100%) -->

TUÓ

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P45

Miscellaneous

Conveyor

DEVICE DESC: Conveyor 2 - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P45, Process 01

Generic Throughput

Process

PROCESS NAME: Converyor #2

SCC CODE: 30502503

ANNUAL TPUT: 229961598 LB

PROCESS COMMENTS:

SCHEDULE: 12 Hrs/Day

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

7 Dys/Wk

of PRODUCT -

MINERALS

AVG TPUT: 28517.06324 LB/HR

MAX TPUT: 30000 LB/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

PM PM10 .029 LB / TON .0064 LB / TON **ORIGIN** EPA **EPA**

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH

UNCNTRLD 3,334.443 LB **CNTRLD** 10.003 LB

336 Dys/Yr

Q3: 25%

OZONE/DY

Q4: 25%

PM (c) PM10 (c) 10000 LB 10000 LB

735.877 LB

2.208 LB

--INCOMING STREAMS--

TPUT --> P45-01

--OUTGOING STREAMS--

P45-01 (100%) --> C20-00 (100%) --> S20-00 (100%) -->

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P46

Miscellaneous

Any Device

DEVICE DESC: Elevator 5 - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P46, Process 01

Generic Throughput

Process

PROCESS NAME: Elevator #5

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

7 Dys/Wk

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

ANNUAL TPUT: 229961598 LB

of PRODUCT -

MINERALS

AVG TPUT: 28517.06324 LB/HR

MAX TPUT: 30000 LB/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

PMPM10

.058 LB / TON

OTHR

.0128 LB / TON

OTHR

--EMISSIONS / YR--

POLLUTANT

NR438 THRESH 10000 LB

UNCNTRLD 6,668.886 LB **CNTRLD** 20.007 LB OZONE/DY

Q4: 25%

PM (c) PM10 (c)

10000 LB

1,471.754 LB

4.415 LB

--INCOMING STREAMS--

TPUT --> P46-01

--OUTGOING STREAMS--

P46-01 (100%) --> C20-00 (100%) --> S20-00 (100%) -->

ÒUT

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P47

Miscellaneous

Silo

DEVICE DESC: Finished Silo 1 - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P47, Process 01

Generic Throughput

Process

PROCESS NAME: Finished Silo #1

SCC CODE: 30502502

PROCESS COMMENTS:

SCHEDULE: 8 Hrs/Day

7 Dys/Wk

336 Dys/Yr Q3: 25%

QTRLY SCHEDULE: Q1: 25%

ANNUAL TPUT: 76653866 LB

Q2: 25%

of PRODUCT -

MINERALS

AVG TPUT: 28517.06324 LB/HR

MAX TPUT: 80000 LB/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

РМ PM10

.000615 LB / TON .000291 LB / TON OTHR

OTHR

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH 10000 LB

UNCNTRLD 23.571 LB

CNTRLD 11.821 LB OZONE/DY

Q4: 25%

PM (c) PM10 (c)

10000 LB

11.153 LB

5.593 LB

-- INCOMING STREAMS--

TPUT --> P47-01

--OUTGOING STREAMS--

P47-01 (50%) --> C20-00 (100%) --> S20-00 (100%) -->

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P48

Miscellaneous

DEVICE DESC: Finished Silo 2 - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P48, Process 00

Generic Throughput

Process

PROCESS NAME: Finish Silo #2

SCC CODE: 30200610

PROCESS COMMENTS:

SCHEDULE: 8 Hrs/Day

QTRLY SCHEDULE: Q1: 25%

7 Dys/Wk Q2: 25%

336 Dys/Yr

ANNUAL TPUT: 76653866 LB

of PRODUCT -

Q3: 25%

AGRICULTURE

AVG TPUT: 28517.06324 LB/HR

MAX TPUT: 80000 LB/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

PM PM10

.000615 LB / TON

OTHR

.000291 LB / TON

OTHR

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH 10000 LB

UNCNTRLD 23.571 LB

CNTRLD .071 LB

OZONE/DY

Q4: 25%

PM (c) PM10 (c)

10000 LB

11.153 LB

.033 LB

--INCOMING STREAMS--

TPUT --> P48-00

--OUTGOING STREAMS--

P48-00 (100%) --> C20-00 (100%) --> S2Ó-00 (100%) --> OUT

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Q4: 25%

OZONE/DY

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P49 Miscellaneous **Any Device**

DEVICE DESC: Weigh Belt - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P49, Process 01 Generic Throughput

Process

PROCESS NAME: Weigh Belt

SCC CODE: 30502503

PROCESS COMMENTS:

SCHEDULE: 12 Hrs/Day

7 Dys/Wk 336 Dys/Yr Q3: 25%

QTRLY SCHEDULE: Q1: 25%

Q2: 25% of PRODUCT -

ANNUAL TPUT: 229961598 LB

MINERALS

AVG TPUT: 57034.12649 LB/HR

MAX TPUT: 120000 LB/HR

--EMISSION FACTORS--

POLLUTANT VALUE / UNIT

<u>ORIGIN</u>

PΜ .029 LB / TON PM10 .0064 LB / TON **EPA** EPA

--EMISSIONS / YR--

POLLUTANT NR438_THRESH

UNCNTRLD 10000 LB

CNTRLD 3,334.443 LB 10.003 LB

PM10 (c) 10000 LB 735.877 LB 2.208 LB

--INCOMING STREAMS--

TPUT --> P49-01

PM (c)

--OUTGOING STREAMS--

P49-01 (100%) --> C20-00 (100%) --> S20-00 (100%) -->

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Q4: 25%

Q4: 25%

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P51 Miscellaneous **Any Device**

DEVICE DESC: Batch Mixer - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P51, Process 00 **Generic Throughput**

Process

PROCESS NAME: Ammonia SCC CODE: 30100101

PROCESS COMMENTS: Process accounts for

"secondary" emission of NH3 initially controlled by C50, but then volatizes from a scrubber water tank w/increasing pH. Resulting fugitive indoor emissions exhaust via roof vent

SCHEDULE: 24 Hrs/Day

336 Dys/Yr 7 Dys/Wk

QTRLY SCHEDULE: Q1: 25%

Q2: 25% Q3: 25%

ANNUAL TPUT: 6112 LB

of PRODUCT -**CHEMICAL**

AVG TPUT: .75794 LB/HR

MAX TPUT: 2 LB/HR

--EMISSION FACTORS--

POLLUTANT VALUE / UNIT **ORIGIN AMMONIA** .73287 LB / LB MBAL 0 LB/TON **PHENOL EPA** ROG 0 LB/TON **EPA**

--EMISSIONS / YR--

POLLUTANT CNTRLD NR438_THRESH <u>UNCNTRLD</u> OZONE/DY AMMONIA (c) (s) 4097 LB 4,479.301 LB 4,479.301 LB

--INCOMING STREAMS--

TPUT --> P51-00

--OUTGOING STREAMS--

P51-00 (100%) --> OUT

P51, Process 01 **Generic Throughput**

Process PROCESS NAME: Batch Mixer

SCC CODE: 30502506

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day QTRLY SCHEDULE: Q1: 25%

7 Dys/Wk 336 Dys/Yr Q2: 25% Q3: 25%

of PRODUCT -

ANNUAL TPUT: 229961598 LB

MINERALS

AVG TPUT: 28517.06324 LB/HR

MAX TPUT: 38000 LB/HR

--EMISSION FACTORS--

<u>POLLUTANT</u> VALUE / UNIT **ORIGIN AMMONIA** .73287 LB / TON MBAL PHENOL .1205 LB / TON STK PM.1355 LB / TON STK

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PM10 ROG	.1355 LB / TON .1205 LB / TON	STK STK		
EMISSIONS / YR POLLUTANT PM (c)	<u>NR438_THRESH</u> 10000 LB	<u>UNCNTRLD</u> 15,579.898 LB	<u>CNTRLD</u> 4,518.171 LB	OZONE/DY
PM10 (c)	10000 LB	15,579.898 LB	4,518.171 LB	
ROG (c)	6000 LB	13,855.186 LB	4,987.867 LB	13.703 LB
AMMONIA (c) (s)	4097 LB	142,234.698 LB	138,881.799 LB	

13,855.186 LB

6,304.110 LB

--INCOMING STREAMS--

4528 LB

TPUT --> P51-01

PHENOL (c) (fs)

--OUTGOING STREAMS--P51-01 (100%) --> C50-00 (100%) --> S50-00 (100%) --> OUT

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336 Dys/Yr

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Any Device

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P52 Miscellaneous

DEVICE DESC: Continuous Mixer - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P52, Process 00 Generic Throughput

Process

PROCESS NAME: Ammonia SCC CODE: 30100101

PROCESS COMMENTS: Process accounts for

"secondary" emission of NH3 initially controlled by C50, but then volatizes from a scrubber water tank w/increasing pH. Resulting fugitive indoor emissions exhaust via roof vent

SCHEDULE: 24 Hrs/Day 7 Dys/Wk

QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

of PRODUCT -CHEMICAL

ANNUAL TPUT: 6112 LB

AVG TPUT: .75794 LB/HR MAX TPUT: 2 LB/HR

--EMISSION FACTORS--

 POLLUTANT
 VALUE / UNIT
 ORIGIN

 AMMONIA
 .73287 LB / LB
 MBAL

 PHENOL
 0 LB / TON
 EPA

 ROG
 0 LB / TON
 EPA

--EMISSIONS / YR--

 POLLUTANT
 NR438_THRESH
 UNCNTRLD
 CNTRLD
 OZONE/DY

 AMMONIA (c) (s)
 4097 LB
 4.479.301 LB
 4.479.301 LB

--INCOMING STREAMS--

TPUT --> P52-00

--OUTGOING STREAMS--

P52-00 (100%) --> OUT

P52, Process 01 Generic Throughput

Process

PROCESS NAME: Continuous Mixer

SCC CODE: 30502503

PROCESS COMMENTS:

 SCHEDULE:
 24 Hrs/Day
 7 Dys/Wk
 336 Dys/Yr

 QTRLY SCHEDULE:
 Q1: 25%
 Q2: 25%
 Q3: 25%

 ANNUAL TPUT:
 229961598 LB
 of PRODUCT

MINERALS

AVG TPUT: 28517.06324 LB/HR

MAX TPUT: 38000 LB/HR

--EMISSION FACTORS--

 POLLUTANT
 VALUE / UNIT
 ORIGIN

 AMMONIA
 .73287 LB / TON
 MBAL

 PHENOL
 .1205 LB / TON
 DNR

 PM
 .1355 LB / TON
 DNR

Q4: 25%

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PM10 ROG	.1355 LB / TON .1205 LB / TON	DNR DNR		
EMISSIONS / YR POLLUTANT PM (c)	NR438_THRESH 10000 LB	<u>UNCNTRLD</u> 15,579.898 LB	<u>CNTRLD</u> 4,518.171 LB	OZONE/DY
PM10 (c)	10000 LB	15,579.898 LB	4,518.171 LB	
ROG (c)	6000 LB	13,855.186 LB	4,987.867 LB	13.703 LB
AMMONIA (c) (s)	4097 LB	142,234.698 LB	138,881.799 LB	

13,855.186 LB

6,304.110 LB

--INCOMING STREAMS--

4528 LB

TPUT --> P52-01

PHENOL (c) (fs)

--OUTGOING STREAMS--P52-01 (100%) --> C50-00 (100%) --> S50-00 (100%) --> OUT

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Q4: 25%

P71

Miscellaneous

Silo

DEVICE DESC: Finish Silo 3 - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

P71, Process 00

Generic Throughput

Process

PROCESS NAME: Finsh silo #3

SCC CODE: 30200610

PROCESS COMMENTS:

SCHEDULE: 8 Hrs/Day

7 Dys/Wk

336 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

ANNUAL TPUT: 76653866 LB

of PRODUCT -

AGRICULTURE

AVG TPUT: 28517.06324 LB/HR

MAX TPUT: 80000 LB/HR

--EMISSION FACTORS--

POLLUTANT

VALUE / UNIT

<u>ORIGIN</u>

PMPM10 .00291 LB / TON .00291 LB / TON DNR DNR

--EMISSIONS / YR--

POLLUTANT

NR438_THRESH

UNCNTRLD 111.531 LB

CNTRLD .335 LB

OZONE/DY

PM (c) PM10 (c)

10000 LB 10000 LB

111.531 LB

.335 LB

--INCOMING STREAMS--

TPUT --> P71-00

--OUTGOING STREAMS--

P71-00 (100%) --> C20-00 (100%) --> S2Ó-00 (100%) -->

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S114

Stack

Stack

DEVICE DESC: Raw Silo 1 Discharge Stack - Tower B

CONSTR DATE: DEVICE COMMENTS:

STACK HEIGHT: 18.3 m **STACK DIAMETER: .15 m**

or 60.04 ft or .49 ft

STACK TEMP: 293 K STACK VELOCITY: .01 m/s

or 67.73 F or .03 ft/s

Releasing/Discharging

material to the atmosphere

PROCESS NAME: Stack for P114

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day QTRLY SCHEDULE: Q1: 24%

6 Dys/Wk Q2: 22%

315 Dys/Yr Q3: 26%

Q4: 28%

--INCOMING STREAMS--C114-01 (100%) --> S114-01

S114, Process 01

--OUTGOING STREAMS--

S114-01 (100%) --> OUT

S115

Stack

Stack

DEVICE DESC: Raw Silo 2 Discharge Stack - Tower B

CONSTR DATE: DEVICE COMMENTS:

STACK HEIGHT: 18.3 m **STACK DIAMETER:** .15 m **STACK TEMP: 293 K** STACK VELOCITY: .01 m/s

or 60.04 ft

or .49 ft or 67.73 F or .03 ft/s

S115, Process 01

Releasing/Discharging

material to the

atmosphere PROCESS NAME: Stack for P115

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

6 Dys/Wk

315 Dys/Yr

QTRLY SCHEDULE: Q1: 24%

Q2: 22%

Q3: 26%

Q4: 28%

-- INCOMING STREAMS--C115-01 (100%) --> S115-01

--OUTGOING STREAMS--

S115-01 (100%) --> OUT

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S120

Stack Stack

DEVICE DESC: Baghouse Discharge Stack - Tower B

CONSTR DATE: DEVICE COMMENTS:

STACK HEIGHT: 4.9 m STACK DIAMETER: .76 m STACK TEMP: 293 K STACK VELOCITY: 11.9 m/s

or 16.08 ft

or 2.49 ft or 67.73 F or 39.04 ft/s

S120, Process 01

Releasing/Discharging

material to the atmosphere

PROCESS NAME: Stack for P113, P116-117,

P121-P129, P141-P149,

P171

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day QTRLY SCHEDULE: Q1: 24%

6 Dys/Wk Q2: 22%

315 Dys/Yr

Q3: 26%

Q4: 28%

-- INCOMING STREAMS--C120-01 (100%) --> S120-01

--OUTGOING STREAMS--S120-01 (100%) --> OUT

S14

Stack Stack

DEVICE DESC: Raw Silo 1 Discharge Stack - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

STACK HEIGHT: 18.9 m STACK DIAMETER: .05 m STACK TEMP: 293 K STACK VELOCITY: .01 m/s

or 62.01 ft

or .16 ft or 67.73 F or .03 ft/s

S14, Process 00

Releasing/Discharging material to the

atmosphere

PROCESS NAME: Raw Silo 1 Discharge Stack

- Tower A

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

6 Dys/Wk

308 Dys/Yr

QTRLY SCHEDULE: Q1: 24%

Q2: 22%

Q3: 27%

Q4: 27%

--INCOMING STREAMS--

C14-00 (100%) --> S14-00

--OUTGOING STREAMS--S14-00 (100%) --> OUT

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S15 Stack Stack

DEVICE DESC: Raw Silo 2 Discharge Stack - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

STACK HEIGHT: 18.9 m or 62.01 ft STACK DIAMETER: .05 m or .16 ft STACK TEMP: 293 K or 67.73 F STACK VELOCITY: .01 m/s or .03 ft/s

S15, Process 00

Releasing/Discharging material to the

atmosphere

PROCESS NAME: Raw Silo 2 Discharge Stack

- Tower A

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day QTRLY SCHEDULE: Q1: 24%

6 Dys/Wk Q2: 22%

308 Dys/Yr

Q3: 27%

Q4: 27%

Q4: 28%

--INCOMING STREAMS--C15-00 (100%) --> S15-00

--OUTGOING STREAMS--

S15-00 (100%) --> OUT

S150 Stack Stack

DEVICE DESC: Wet Scrubber Discharge Stack - Tower B

CONSTR DATE: DEVICE COMMENTS:

STACK HEIGHT: 22.9 m or 75.13 ft STACK DIAMETER: .61 m or 2 ft STACK TEMP: 293 K or 67.73 F STACK VELOCITY: 9.7 m/s or 31.82 ft/s

S150, Process 01

Releasing/Discharging

material to the atmosphere

PROCESS NAME: Stack for P151-153

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

6 Dys/Wk 315 Dys/Yr QTRLY SCHEDULE: Q1: 24% Q2: 22% Q3: 26%

--INCOMING STREAMS--

C150-01 (100%) --> S150-01

--OUTGOING STREAMS--

S150-01 (100%) --> OUT

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S20 Stack Stack

DEVICE DESC: Baghouse Discharge Stack - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

STACK HEIGHT: 4.9 m or 16.08 ft STACK DIAMETER: .76 m or 2.49 ft STACK TEMP: 293 K or 67.73 F STACK VELOCITY: 11.9 m/s or 39.04 ft/s

S20, Process 00

Releasing/Discharging

material to the atmosphere

PROCESS NAME: Baghouse Discharge Stack

- Tower A

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day QTRLY SCHEDULE: Q1: 24%

6 Dys/Wk Q2: 22%

308 Dys/Yr

Q3: 27%

Q4: 27%

--INCOMING STREAMS--C20-00 (100%) --> S20-00

--OUTGOING STREAMS--S20-00 (100%) --> OUT

S22 Stack Stack

DEVICE DESC: Raw Silo 3 Discharge Stack - Tower A

CONSTR DATE: DEVICE COMMENTS:

STACK HEIGHT: 18.9 m or 62.01 ft STACK DIAMETER: .05 m or .16 ft STACK TEMP: 293 K or 67.73 F STACK VELOCITY: .01 m/s or .03 ft/s

S22, Process 01

Releasing/Discharging

material to the atmosphere

PROCESS NAME: Raw Silo 3 Discharge Stack

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day 6 Dys/Wk 308 Dys/Yr

QTRLY SCHEDULE: Q1: 24%

Q2: 22%

Q3: 27%

Q4: 27%

--INCOMING STREAMS--C22-01 (100%) --> S22-01

--OUTGOING STREAMS--S22-01 (100%) --> OUT

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Stack

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Stack

DEVICE DESC: Wet Scrubber Discharge Stack - Tower A

CONSTR DATE: 12/01/2005

DEVICE COMMENTS:

STACK HEIGHT: 25.6 m STACK DIAMETER: .61 m

or 83.99 ft or 2 ft

STACK TEMP: 293 K STACK VELOCITY: 9.7 m/s

or 67.73 F or 31.82 ft/s

S50, Process 00

Releasing/Discharging

material to the atmosphere

PROCESS NAME: Wet Scrubber Discharge

Stack - Tower A

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

6 Dys/Wk

308 Dys/Yr

QTRLY SCHEDULE: Q1: 24%

Q2: 22%

Q3: 27%

Q4: 27%

--INCOMING STREAMS--C50-00 (100%) --> S50-00

--OUTGOING STREAMS--

S50-00 (100%) --> OUT

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	FACI	LITY EMISSION:	S SUMMARY			
-2010 SUMMARY-	2010	2010	2010	2010		
POLLUTANT	NR438_THRESH	UNCNTRLD/YR	CNTRLD/YR	OZONE/DY		
NOX	10000 LB	12,390.73700 LB	12,390.73700 LB	34.04049 LB		
PM	10000 LB	1,306,792.22396 LB	24,497.53095 LB			
PM10	10000 LB	631,217.01482 LB	21,289.97393 LB			
ROG	6000 LB	58,488.50630 LB	21,230.86259 LB	58.32655 LB		
AMMONIA (s)	4097 LB	616,603.97238 LB	602,516.16345 LB			
PHENOL (fs)	4528 LB	58,215.06830 LB	26,487.85608 LB			
-2009 SUMMARY-	2009	2009		2009		
POLLUTANT	NR438_THRESH	UNCNTRLD/YR	CNTRLD/YR	OZONE/DY		
NOX	10000 LB	10,460.02600 LB	10,460.02600 LB	35.53138 LB		
PM	10000 LB	1,001,244.80114 LB	18,128.05244 LB			
PM10	10000 LB	483,170.12096 LB	15,709.63124 LB			
ROG	6000 LB	43,074.83738 LB	15,681.94177 LB	53.26958 LB		
AMMONIA(S)	4097 LB	471,728.08754 LB	461,370.32359 LB			
PHENOL(FS)	4528 LB	42,801.39938 LB	19,474.63671 LB			

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REPORT LEGEND

--EMISSIONS--

c = Calculated; r = Reported

f = Federal Hap; s = State Hap; fs = Fed and State Hap